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ABSTRACT

This guidance instrument (student four-year planning form), middle school program, and student learning objectives for all career and vocational education courses to be changed or added represent the products of a Lake Stevens School District, Washington, curriculum development project. The guidance instrument is a form to be completed by eighth-grade students in planning an educational program for grades 9-12. The recommended format for the middle school describes the philosophy, curriculum, and staffing plan to provide for the articulation of students between the middle school and senior high vocational programs. Written by vocational and career education instructors and counselors, the student learning objectives are intended for twenty-six courses in six program areas: vocational agriculture, business and office education, distributive education, home and family life, vocational/industrial arts, and career education. Courses include Ag Science, Small Gas Engines, Forestry, Advanced Animal Science, Horticulture, Metal Shop, Ag Welding, Ag Electricity, Typing, Model Office, Business Lab, Shorthand, Bookkeeping and Accounting, Food Service, Exploratory Home and Family Life, General Home and Family Life, Specialty Foods, Preparation for the Future, Housing and Home Furnishings, Tailoring, Living on Your Own, Exploratory Course in Vocational/Industrial Arts, General Woodshop, Drafting, and Career Exploration. (YLB)

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ED 183911

FINAL REPORT

#79-AHF(112)

MODEL VOCATIONAL CURRICULUM DEVELOPMENT

Curriculum Development Project
Conducted Under
Public Law 94-482

CE 024 555

The project reported herein was performed pursuant to a grant from the Research Coordinating Unit of the Washington State Commission for Vocational Education. Contractors undertaking such projects under the Commission for Vocational Education sponsorship are encouraged to express freely their professional judgment in the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Commission for Vocational Education position or policy.

Glenn A. Grandy, Vocational Director
Robert Estes, Curriculum Director
Lake Stevens School District No. 4
Lake Stevens WA 98258

October 1979

U S DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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Vocational Agriculture

Business and Office

Distributive Education

Home and Family Life

Vocational Industrial Arts

Career Education

I INTRODUCTION

The Lake Stevens School District is a first class school district located in Eastern-Central Snohomish County. Enrollment K-12 as of October 1, 1978 was 2,898. In-district vocational programs included: Business and Office Education, Distributive Education, Home and Family Life Education, Vocational Agriculture, and Vocational Industrial Arts. In addition, the District is also a member of the Sno-Isle Skills Center. In 1978-79, there were 148 vocational with an additional 32 students attending the Sno-Isle Skills Center. The District employs a certificated vocational counselor and a certificated vocational director.

In 1974, the District made a decision to build a new high school complex that would necessitate a change from the 6-3-3 educational plan to a 5-3-4. This change afforded us the opportunity to make desired changes in education programs to correspond to revised District goals and objectives.

Teachers and administrators studied the middle school concept for over a year before identifying major concerns to be answered by the convening of specialized committees. In the career and vocational education and guidance areas, these concerns were expressed as follows:

1. How do we provide for the systematic articulation of students between the middle school and vocational classes at the high school?

2. How do we ensure an educated selection of a vocational area of study by individual students?

3. Are student learning objectives developed for all career and vocational courses to be changed or revised due to the re-organization of the educational plan?

II GOALS AND OBJECTIVES

The career and vocational education instructors, in cooperation with both the curriculum and vocational directors, developed the following project objectives to speak to the stated concerns:

1. To develop a guidance instrument which will be used by eighth grade students in planning an educational program for grades 9-12.

2. To write a recommended format explaining the articulation between the Middle School and Senior High School with respect to vocational, industrial arts, and career education. This document will include a discussion of philosophy, staffing, and any new aspects of the program.

3. To write student learning objectives for all career and vocational education courses to be changed or added.

III PROCEDURES

Both the vocational and curriculum directors met with the career and vocational education instructors in October 1978, and outlined the project design and procedures to be followed in implementing the project. Staff directly involved in the project included:

Career Education	Jack Hein
Vocational Counselor	Claudia Buxton
Business and Office Education	Yvonne Brailsford Ila Swofford
Distributive Education	Steve Berg
Home & Family Life Education	Sheila Browitt Edna Morgan Betty Sheraton
Vocational Agriculture Education	Carl Jensen Erv Stritzke Gayle Whitsell
Vocational Industrial Arts	Kevin Grayum Robert Watson
Curriculum Director	Robert Estes
Vocational Director	Glenn Grandy

Major activities identified by the committee included:

1. Selection of a curriculum design.
2. Identify the major learnings in each selected course.
3. Provide in-service in writing behavioral objectives.
4. Write the major learnings in behavioral objective terms.
5. Develop a task analysis for each objective.
6. Review the first draft.
7. Make appropriate revisions of objectives and task analysis.

8. Board review and approval of learning objectives.
9. Develop an instrument to be used in student planning.
10. Assemble material in final form.

Substitutes were hired for classroom instructors released to work on the project. For the most part, instructors were scheduled to work on the project during the regular school day.

Total days provided to work on the project were:

Business and Office Education	6 days
Career Education	6 days
Distributive Education	3 days
Home & Family Life Education	15 days
Vocational Agriculture	14 days
Vocational Industrial Arts	12 days
Curriculum Director	20 days
Vocational Director	10 days

IV PRODUCT

Through the efforts of the counselors, career education instructors and curriculum director, a guidance instrument was developed to assist in planning a students four year schedule, (see Appendix A). Students will complete the four year plan during the second semester of the eighth grade. At this time, the students will have completed career exploration and elective courses related to vocational programs available at the Senior High School and Skills Center.

The Middle School committee has developed a philosophy, curriculum, and staffing plan to provide for the articulation of students between the Middle School and Senior High vocational programs, (see Appendix B). The key to the articulation is two fold. First, all seventh grade students will be required to take exploratory courses that expose the student to vocational programs available grades 9-12. Second, all students will be required to take Career Education which further educates them in occupational training opportunities available in later life. It is at the conclusion of the career education course that the student completes the four year educational plan.

Vocational and career education instructors and counselors spent a total of 56 days writing objectives for courses that were to be revised or added as a result of the change in the educational plan, (see Appendix C). Learning objectives were written for:

Vocational Agriculture

Ag Science
Small Gas Engines
Forestry
Advanced Animal Science
Horticulture
Metal Shop
Ag Welding
Ag Electricity

Business and Office Education

Typing
Model Office
Business Lab
Shorthand
Bookkeeping and Accounting

Distributive Education

Food Service

Home and Family Life

Exploratory Home and Family Life
General Home and Family Life
Specialty Foods
Preparation for the Future
Housing and Home Furnishings
Tailoring
Living On Your Own

Vocational/Industrial Arts

Exploratory Course in Vocational/Industrial Arts
General Woodshop
Vocational Woodshop
Drafting

Career Education

Career Exploration

V CONCLUSIONS

The project as attempted was very ambitious. Although all objectives were met, some were accomplished to a greater degree than others.

Objective 1 was satisfied in that a guidance instrument has been developed to assist eighth grade students in developing a four year educational plan. The development of the tentative plan involves the student, parent or guardian, and counselor or advisor. This plan, though tentative in nature, will greatly enhance the articulation of students between the Middle School and vocational programs at the Senior High and Skills Center.

The activities performed in the accomplishment of Objective 2 are largely responsible for the successful launching of the Middle School this fall. The Middle School program committee spent considerable time and effort developing the philosophy, curriculum, and staffing plan before finalizing a recommendation. Staff meetings were held involving all District employees in order to ensure input and a full understanding of the concept. Public meetings were held to ensure community support of the project. The final result was a smooth transition from the 6-3-3 plan to the 5-3-4 plan.

The degree and method of accomplishing Objective 3 is questionable. Learning objectives were developed for selected vocational and career education courses utilizing present staff during regularly contracted days. However, the expertise of individual staff members varied, as is evidenced by the finished product. These student objectives will be implemented during the 1979-80 school year, and it is anticipated that some will require extensive revision.

In addition, it is felt that the total number of days teachers were released to work on this project (56 days), coupled with other reasons for being out of the classroom, had to have a negative effect on the regular educational program.

Appendix A-1

LAKE STEVENS HIGH SCHOOL
TENTATIVE FOUR-YEAR PLAN

NAME ____________________ Current Date ____________________

Year of Graduation ____________ Teacher/Advisor ____________________

NINTH GRADE

1st Semester	2nd Semester
Fr. English 1	Fr. English 2
Basic Lab Science 1	Basic Lab Science 2
PE 1	PE 2
Math	Math
__________	__________
__________	__________
Alt. ______	Alt. ______
Alt. ______	Alt. ______

TENTH GRADE

1st Semester	2nd Semester
Soph. English 1	Soph. English 2
Wa St. Hist/World Geo.	Wa St. Hist/World Geo.
PE 3	PE 3
__________	__________
__________	__________
__________	__________
Alt. ______	Alt. ______
Alt. ______	Alt. ______

ELEVENTH GRADE

1st Semester	2nd Semester
Jr. English 1	Jr. English 2
U.S. History 1	U.S. History 2
__________	__________
__________	__________
__________	__________
__________	__________
Alt. ______	Alt. ______
Alt. ______	Alt. ______

TWELFTH GRADE

1st Semester	2nd Semester
Current World Prob. 1	Current World Prob. 2
__________	__________
__________	__________
__________	__________
__________	__________
__________	__________
Alt. ______	Alt. ______
Alt. ______	Alt. ______

I have discussed this four year plan with my child.

Parent/Guardian ____________________________

Appendix A-2

FOUR-YEAR PLAN
LAKE STEVENS HIGH SCHOOL

You will need to earn a total of 45 credits, grades 9 - 12, to graduate. When figuring, plan on 6 classes (6 credits) each semester.

9th Grade

Required
Fr. English 1 & 2
Basic Lab Science 1 & 2
P.E. 1 & 2
Math
  (Basic Math, Pre-Algebra, Algebra)
Elective
Elective

10th Grade

Required
Soph. Engl. 1 & 2
P.E. 3 & 4
World Geography/Washington State History
Elective
Elective
Elective

11th Grade

Required
Jr. English 1 & 2
U.S. History 1 & 2
Elective
Elective
Elective
Elective

12th Grade

Required
Contemporary World Problems 1 & 2
Elective
Elective
Elective
Elective
Elective

Below is a list of the specific subject area requirements in order to graduate:

English - 6 credits
   Must include: Freshman English 1 and 2 (2 credits)
                 Sophomore English 1 & 2 (2 credits)
                 Junior English 1 & 2 (2 credits)

Mathematics - 3 credits

Social Studies - 6 credits
   Must include: Washington State History and Government (1 credit)
                 World Geography (1 credit)
                 U.S. History & Government 1 and 2 (2 credits)
                 Contemporary World Problems 1 and 2 (2 credits)

Laboratory Science - 2 credits

Occupational Education - 3 credits (to be taken as electives)

Physical Education/Health - 4 credits

In addition, students are required to attend eight semesters of school in grades 9 - 12.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

MIDDLE SCHOOL PROGRAM

The Lake Stevens School District made the decision in 1974 to build a new four year high school, thus creating the opportunity to organize a middle school in place of the existing junior high program. For the past year a committee of teachers and administrators has been studying the middle school concept. This recommendation is a result of that year-long study.

The committee reviewed literature on the middle school as well as visiting many existing middle school programs in addition to talking with several professionals who had firsthand experience in the development of such programs. The process was slow but thorough.

The change from a 7 - 9 junior high to a 6 - 8 middle school affords us the opportunity to make changes in the existing philosophy as well as the program itself. One major change is to establish the middle school as a timely transitional period from the elementary to the high school. The middle school will look more like an elementary than like a high school in that the security and well-being of each individual student will be closely guarded, whereas, the high school student tends to be more independent. The emphasis on the individual student's well-being will be structured so as to enable them to grow with each experience in preparation for the demands made for more decision making at the high school level.

ORGANIZATION

The middle school will be organized around grades 6, 7, 8. As mentioned above, one of the major organizational changes will be the gradual transition from a self-contained elementary to a departmentalized high school. Part of that graudal transition should include exposure to a wide varieties of subjects rather than specialization in subject areas.

Flexibility is another guide word for the middle school. Flexibility in the academic and activities program to meet individual student needs is a high priority. In addition, the middle school schedule should be flexible enough to allow for teachers to exchange classes with principal approval and for cross class grouping in programs such as reading. The current building facility has existing built-in flexibility with several rooms with movable walls for large group instruction as needed.

Part of the organizational make-up of the middle school should provide an opportunity to enhance student self-image through a variety of activities and clubs that appeal to student interest and allow for student success. The activities should appeal to the varied interests found among students newly arrived from the elementary setting and to those about to embark on a high school program. These activities will vary from typical elementary school playground games to a sophisticated ASB organizational structure. Through these varied activities students not only receive the benefit of a new experience but also an opportunity to grow in another area as well as interacting with their teachers in a non-academic setting.

CURRICULUM

Students will be required to take basic courses such as mathematics, language arts, reading, and social studies. In addition, exposure to a variety of other subjects will be part of the requirements through the exploratory program which will include music, art, industrial crafts, home and family living and career education. Health will be taught as a part of physical education, home and family life and science. The length of each class will vary to best meet the needs of the students and the program.

A mainstay of the curriculum is the bloc program. The sixth grade bloc is designed so students will spend the majority of their day in a bloc with one teacher. They will move for reading and one exploratory course each quarter. The seventh grade will have a three period bloc including social studies, language arts, and reading, whereas, the eighth grade will have a two period bloc of language arts and reading.

The intent of the bloc is three-fold. First, having students for a longer period of time allows for more flexibility to concentrate on the basic subjects. The second reason is that a longer period of time allows students to develop student-teacher relationships similar to the ones they experienced in elementary school. Lastly, the bloc supports the philosophy of a gradual transition from the self-contained elementary to the departmentalized high school.

Heterogeneous grouping, randomly selected classes, will be the general rule for most classes. There will be some exceptions such as ability grouping in mathematics and individual progress in the reading program. The purpose of having a mixture of class groupings is to provide for individual needs as well as exposure to a varied range of abilties and co-educational settings.

The middle school should stress an intramural activities program to provide broad and varied opportunities for all girls and boys to develop skills and participate in physical activities. This concept supports the idea that the middle school should provide participation-oriented rather than spectator-oriented activities. Further, intramural programs should be offered in conjunction with a low key athletic program. Low key in this context means that the athletic program should not receive preferential publicity or emphasis over and above the intramural program. The intent, again, is to encourage broad-based participation.

A short recess or break may be necessary during the sixth and seventh grade blocs.

Electives should be developed by the staff based on their expertise and student interest. Both seventh and eighth students will have electives available to them. Eighth graders will probably have more electives to choose from, primarily because they will have met more prerequisites.

GUIDANCE

It is considered desirable to have full time guidance counselors who focus attention upon individual counseling or group counseling. In order to accomplish that, it is recommended that an advisor/advisee program be created. The purpose of the advisor/advisee program is to provide students with one teacher who will look after their interests and advise them about school problems and programs. If the student has a question or concern they have their advisor who they can turn to. This in turn frees the guidance counselors to deal with more counseling and less day to day scheduling problems.

All faculty members should be involved in the advisor/advisee program to reduce the number of students per advisor, thus allowing for more individual attention. A specific time should be set aside for advisor/advisee conferences.

The guidance program should be developed to include the following goals:

1) development of student self-image and personal security
2) early identification of remedial problems
3) development of self-responsiblity and independent study skills
4) parent/teacher contacts
5) student involvement in activities

STAFF

In-service of the middle school staff is necessary prior to the launching of the program for 1979-80. The in-service should include an understanding of the middle school philosophy and the mechanics of the program. Also it is important to assist the staff in developing an identity for the middle school rather than maintain a "junior" classification which is patterned after the high school.

Flexibility in scheduling of staff, both teachers and aides, is important to the philosophy of the middle school. As much as possible, staff should be assigned to the total population rather than a particular grade level.

The staff has responsibilities for academic as well as social and emotional growth of students. Participation in the development of the instructional program is a part of that responsibility. In conjunction with academic responsibility, the staff should be concerned with over-all student growth and development.

The middle school should afford students and staff with the opportunity to provide a better transition from early childhood to the increased demands made by young adulthood as found in the high school. The human quality associated with someone caring about each individual student is a central theme of the middle school that is meant to be the cornerstone for student learning and success.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

November 27, 1978

MIDDLE SCHOOL PROGRAM

SIXTH GRADE			SEVENTH GRADE			EIGHTH GRADE	
Social Studies 8	5	1st	Mathematics		1st	Mathematics	
Reading	4	2nd	Social Studies 8		2nd	Social Studies	
Language Arts		3rd	Language Arts		3rd	Language Arts 8	
Mathematics		4th	Reading		4th	Reading	
Science		5th	PE/Science	2	5th	PE	
Health		6th	Industrial Crafts/ Home Economics (one semester each)	3	6th	Science/CE (semester)	7
Penmanship							
Spelling							
7th Music/Art/PE	1	7th	Elective	6	7th	Elective	6

1 Music and Art are nine-week courses taught alternately with PE.

2 Includes Health objectives both semester.

3 Includes consumer skills.

4 Reading taught at specified time to allow for grouping.

5 Band taught during 6th grade bloc.

6 Electives will be determined by staff qualifications and student interests.

7 Students will complete four-year high school program plan during fourth quarter as part of career education.

8 Subjects outlined are a bloc of time where the same students and same instructor are together.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

VOCATIONAL EDUCATION PROGRAM

September, 1979

ROBERT N. ESTES, Director of Curriculum
GLENN A. GRANDY, Vocational Director
DONALD M. CHRISTENSEN, Superintendent

VOCATIONAL EDUCATION COMMITTEE

Steve Berg
Yvonne Brailsford
Sheila Browitt
Claudia Buxton
Kevin Grayum
Jack Hein
Edna Morgan
Betty Sheraton
Erv Stritzke
Ila Swofford
Robert Watson
Gayle Whitsell
Carl Jensen

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: JOB OPPORTUNITIES
MAIN HEADING: BUSINESS

OBJECTIVE: The learner will demonstrate knowledge of employment in ornamental horitculture by listing 15 businesses in 3 different categories that employ persons in ornamental horticulture.

CAN THE LEARNER:

1. List 5 categories of horticulture businesses?
2. List 5 businesses in Snohomish County in each of 3 categories?

AKE STEVENS SCHOOL DISTRICT NO. 4
ake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & II
GRADE LEVEL: 10-11-12

NIT: SUPERVISED OCCUPATIONAL EXPERIENCE MAIN HEADING: PROJECT & RECORDKEEPING

BJECTIVE: The learner will demonstrate the ability to plan and carry out a supervised occupational experience program by completing the project record book.

AN THE LEARNER:

1. define supervised occupational experience project?
2. describe record book keeping?
3. plan project?
4. develop goals?
5. complete project record book?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & II
GRADE LEVEL: 10-11-12

UNIT: FUTURE FARMERS OF AMERICA (FFA)
MAIN HEADING: FFA AND VO-AG PROGRAM

OBJECTIVE: The learner will demonstrate an understanding of FFA's role in the curriculum by explaining the relationship of the FFA youth group and Vo-Ag classes and listing opportunities available to members of FFA to participate in activities involving horticulture.

CAN THE LEARNER:

1. list horticulture contest classes?
2. list membership requirements?
3. plan an exhibit at a fair?
4. participate in plant sales?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & II
GRADE LEVEL: 10-11-12

UNIT: PLANT GROWTH

MAIN HEADING: CONTROLING PLANT GROWTH

OBJECTIVE: The learner will demonstrate the ability to alter plant growth by mechanical means by cutting terminal growth and pinching buds.

CAN THE LEARNER:

1. list means of altering plant growth?
2. describing methods of altering plant growth?
3. cut terminal growth?
4. pinch buds?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I &[illegible]I
GRADE LEVEL: 10-11-12

UNIT: PLANT GROWTH
MAIN HEADING: PARTS OF PLANT

OBJECTIVE: The learner will demonstrate an understanding of the function of plants by explaining the function of various plant parts.

CAN THE LEARNER:

1. define roots, stems, leaves, flowers, fruit?
2. explain function of plant parts?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: WORK HABITS AND SAFE

MAIN HEADING: SAFETY & GREENHOUSE AND NURSERY

OBJECTIVE: The learner will apply safe and proper work habits by being prompt and working safely in the nursery and greenhouse.

CAN THE LEARNER:

1. list industry standards?
2. tell where first aid station is?
3. explain industrial insurance?
4. demonstrate safe use of equipment?
5. explain safe use of pesticides?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I &[illegible]
GRADE LEVEL: 10-11-12

UNIT: PROPAGATION

MAIN HEADING: SEEDS

OBJECTIVE: The learner will demonstrate an ability to raise plants by producing a greenhouse crop from seed.

CAN THE LEARNER:

1. list factors affecting germination?
2. explain disease control in seedlings?
3. demonstrate transplanting seedlings?
4. germinate seeds?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: PROPAGATION

MAIN HEADING: ASEXUAL (VEGETATIVE)

OBJECTIVE: The learner will demonstrate the ability to grow marketable plants by producing 5 different marketable (houseplants).

CAN THE LEARNER:

1. identify proper rooting hormone?
2. identify rooting media?
3. explain misting on cuttings?
4. discuss environment for rooting cutting?
5. demonstrate taking cuttings?
6. market 5 plants?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: GREENHOUSE CONSTRUCTION & MAINTENANCE
MAIN HEADING: COOLING

OBJECTIVE: The learner will demonstrate an understanding of methods and principles involved in cooling of a greenhouse by describing various methods.

CAN THE LEARNER:

1. list types of cooling systems?
2. explain principles involved in cooling?
3. recognize temperatures needed?
4. describe shading of greenhouse?
5. describe various methods of cooling?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & II
GRADE LEVEL: 10-11-12

UNIT: GREENHOUSE CONTRUCTION & MAINTENANCE
MAIN HEADING: HEATING SYSTEMS

OBJECTIVE: The learner will demonstrate an understanding of efficient operation of a greenhouse by selecting the most economical method of heating greenhouses.

CAN THE LEARNER:

1. recognize available resources?
2. figure costs?
3. explain crop needs?
4. describe systems available for heating?
5. select best method?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I &
GRADE LEVEL: 10-11-12

UNIT: GREENHOUSE CONSTRUCTION & MNTNCE. MAIN HEADING: GREENHOUSE FRAMING

OBJECTIVE: The learner demonstrate the ability to figure costs of different methods of greenhouse styles by computing actual costs of a given greenhouse.

CAN THE LEARNER:

1. name different materials greenhouses are constructed from?
2. recognize cost and life efficiency factors?
3. list preservatives used for wood and metal?
4. explain labor and cost involved?
5. compute costs of given greenhouse?

AKE STEVENS SCHOOL DISTRICT NO. 4
ake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & II
GRADE LEVEL: 10-11-12

NIT: GREENHOUSE CONSTRUCTION & MNTNCE.

MAIN HEADING: MAINTENANCE

BJECTIVE: The learner will demonstrate an understanding of maintaining a greenhouse by locating and explaining different parts of the greenhouse that require maintenance.

AN THE LEARNER:

. name parts of greenhouse?
. explain functions of parts of greenhouse?
. explain parts that require maintenance?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: GREENHOUSE CONSTRUCTION & MNTNCE.
MAIN HEADING: COVERINGS

OBJECTIVE: The learner will demonstrate the ability to analyze greenhouse coverings by comparing cost and efficiency of various greenhouse coverings.

CAN THE LEARNER:

1. compute area of a greenhouse surface?
2. identify different greenhouse covers?
3. secure prices of various materials?
4. determine life expectancy?
5. figure heat loss?
6. compare costs?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I &
GRADE LEVEL: 10-11-12

UNIT: PLANT IDENTIFICATION

MAIN HEADING: EVERGREEN TREES

OBJECTIVE: The learner will demonstrate an understanding of evergreen trees by identifying 15 different trees by common or scientific name.

CAN THE LEARNER:

1. restate classification of plants?
2. name identifying charactreistics?
3. identify scientific and common names?
4. identify specific species?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]I
GRADE LEVEL: 10-11-12

UNIT: PLANT IDENTIFICATION

MAIN HEADING: HOUSEPLANTS

OBJECTIVE: The learner will demonstrate an understanding of houseplants by identifying 30 different houseplants by common or scientific name.

CAN THE LEARNER:

1. name classification of plants?
2. identify characteristics?
3. list scientific and common names?
4. identify specific species?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & II
GRADE LEVEL: 10-11-12

UNIT: PLANT IDENTIFICATION
MAIN HEADING: EVERGREEN SHRUBS

OBJECTIVE: The learner will demonstrate an understanding of evergreen shrubs by species.

CAN THE LEARNER:

1. name classification of plants?
2. describe uses of scientific and common names?
3. list characteristics of different shrubs?
4. identify specific plants?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I &[illegible]I
GRADE LEVEL: 10-11-12

UNIT: PLANT IDENTIFICATION

MAIN HEADING: DECIDUOUS TREES

OBJECTIVE: The learner will demonstrate an understanding of deciduous tress by identifying 15 common deciduous trees by common or scientific name.

CAN THE LEARNER:

1. name classification of plants?
2. describe uses of scientific and common names?
3. list characteristics of different trees?
4. identify specific plants?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & II
GRADE LEVEL: 10-11-12

UNIT: TOOLS

MAIN HEADING: TOOL USAGE

OBJECTIVE: The learner will demonstrate an understanding of tools by identifying and properly using these tools.

CAN THE LEARNER:

1. name tools used in greenhouse?
2. list safety procedures for tool usage?
3. explain cleanup procedures?
4. demonstrate proper use of tools?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: SOILS & PLANT NUTRITION

MAIN HEADING: FERTILIZERS

OBJECTIVE: The learner will demonstrate appropriate knowledge of elements needed for plant growth by proper fertilization of plants in the greenhouse and landscape.

CAN THE LEARNER:

1. list primary nutrients?
2. list secondary nutrients?
3. list micro nutrients?
4. list fertilizers?
5. name fertilizers and affect on plant growth?
6. describe methods of fertilization?
7. apply proper fertilization?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I [illegible] II
GRADE LEVEL: 10-11-12

UNIT: SOILS AND PLANT NUTRITION

MAIN HEADING: SOILS

OBJECTIVE: The learner will demonstrate an understanding of soils by selecting and mixing soils for use in the greenhouse.

CAN THE LEARNER:

1. identify soil amendments?
2. list soil properties?
3. explain proportions?
4. demonstrate mixing soil?
5. demonstrate selecting right amendments?
6. demonstrate sterilizing?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: WEED IDENTIFICATION & CONTROL

MAIN HEADING: WEEDS

OBJECTIVE: The learner will demonstrate an understanding of weed control by identifying a control for common weeds in lawns, gardens and driveways.

CAN THE LEARNER:

1. define the following terms: herbicides; roundup; casoron; pre-emergent; post-emergent; drift; broad leaf; grass; woody; herbaceous?
2. describe use of controls?
3. identify proper control to be used for lawn, gardens, and driveways?

SUBJECT: HORTICULTURE I &
GRADE LEVEL: 10-11-12

UNIT: LANDSCAPE DESIGN

MAIN HEADING: LANDSCAPING

OBJECTIVE: The learner will demonstrate the ability to design a home landscape by completing an actual design.

CAN THE LEARNER:

1. list plant descriptions?
2. list climate zones?
3. prepare needs assessment by planning a design?
4. draw a scale drawing?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I & [illegible]
GRADE LEVEL: 10-11-12

UNIT: INSECT CONTROL
MAIN HEADING: IDENTIFICATION

OBJECTIVE: The learner will demonstrate an understanding of insect control by identifying from examples of drawings or pictures of the following insects: weevils, slugs, white flies, mealy bugs, lady bugs, cutworms, nematodes and describe methods of control

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CAN THE LEARNER:

1. list parts of an insect?
2. name types of insects?
3. identify damage to plant?
4. explain where to look for insects?
5. describe methods of control?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HORTICULTURE I &[illegible]I
GRADE LEVEL: 10-11-12

UNIT: INSECTS

MAIN HEADING: PESTICIDES

OBJECTIVE: The learner will demonstrate the ability to use pesticides by making a recommendation on controling insects.

CAN THE LEARNER:

1. define the following pesticide terms: systemtic; insecticide; liquid; pesticide; insecticide; fungicide; LD 50; miticide; biodegradable; growth hormone regulators; plant fume 103; malathion; captan; benlate; sticker; SBP1832; orthene; temik; wetable powder?
2. describe laws that apply to pesticides?
3. describe safety procedures for application of pesticides?
4. make a recommendation on controling insects?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: WELDING
MAIN HEADING: SAFETY

OBJECTIVE: The learner will demonstrate safety by passing a safety test on all equipment that is located in the shop.

CAN THE LEARNER:

1. name equipment?
2. tell location of equipment?
3. identify when equipment is not functioning properly?
4. describe proper use of equipment?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: WELDING

MAIN HEADING: SAFETY

OBJECTIVE: The learner will demonstrate the ability to follow rules for shop work when working in shop.

CAN THE LEARNER:

1. clean area according to schedule?
2. replace equipment to proper place?
3. report broken equipment?
4. respond to teachers signal for attention?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: OXY-ACETYLENE WELDING & CUTTING

MAIN HEADING: GAS WELDING

OBJECTIVE: The learner will demonstrate the ability to gas weld in the flat, horizontal, and vertical positions on mild steel plat by welding the following joints: butt weld; T-weld; corner weld; lap weld; beads with rod pipe and tubing.

CAN THE LEARNER:

1. name weld joints?
2. describe weld joints?
3. demonstrate weld joint design?
4. adjust torch to neutral flame?
5. select welding rod?
6. illustrate torch position?
7. select mild steel plate?
8. complete the weld joints?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: OXY-ACETYLENE WELDING & CUTTING

MAIN HEADING: BRAZING

OBJECTIVE: The learner will demonstrate the ability to braze weld in the flat, horizontal and vertical positions on mild steel and cast iron by welding the following weld joints: butt; fillet; corner; lap; pipe and tubing.

CAN THE LEARNER:

1. relate braze welding attributes?
2. describe braze welding?
3. select and apply flux?
4. use braze rod?
5. use joint design?
6. identify weld positions?
7. list equipment?
8. apply safety rules?
9. complete braze weld joints?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: OXY-ACETYLENE WELDING AND CUTTING

MAIN HEADING: HEATING

OBJECTIVE: The learner will demonstrate the ability to use heating by properly adjusting torch (rosebud tip) and heating a steel plate or pipe and bending it to an assigned position.

CAN THE LEARNER:

1. demonstrate oxy-gas setup?
2. demonstrate rosebud lighting and adjusting?
3. demonstrate heating metal (different temperatures and colors)?
4. demonstrate adjusting welding flame?
5. apply safety rules to work situations?
6. heat and shape to an assigned position?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: OXY-ACETYLENE WELDING AND CUTTING
MAIN HEADING: BURNING

OBJECTIVE: The learner will demonstrate burning by cutting mild steel plate of any thickness with a hand torch and radial graph.

CAN THE LEARNER:

1. identify equipment (torch; radialgraph)?
2. use protective covering?
3. demonstrate cutting procedures (sheet; heavy plate)?
4. set correct pressures for gas?
5. cut mild steel with a hand torch and radial graph?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: ARC WELDING

MAIN HEADING: SETUP AND ADJUSTMENT

OBJECTIVE: The learner will demonstrate an understanding of welding equipment by adjusting for welding any of the welders in the shop.

CAN THE LEARNER:

1. select polarity?
2. apply safety rules to work situation?
3. set correct amperage needed?
4. select equipment needed?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: ARC WELDING

MAIN HEADING: WELD JOINT

OBJECTIVE: The learner will demonstrate the ability to make welding joints by the proper rod (E6010, E6011, E6013, E70is) and properly welding in the flat, horiztonal and veritcal positions using weld joints: stringer beads; T-weld; corner weld, butt, and lap.

CAN THE LEARNER:

1. name weld joints?
2. describe weld joints?
3. select rods?
4. set amperage control?
5. select polarity?
6. use proper rod angle?
7. properly weld joints?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: TIG WELDING

MAIN HEADING: ALUMINUM

OBJECTIVE: The learner will demonstrate the ability to weld aluminum in the flat position using aluminum rod and fillet and butt welding jionts.

CAN THE LEARNER:

1. set proper amperage and voltage?
2. demonstrate torch movement?
3. strike arc?
4. use foot control to control amps?
5. clean metal?
6. select proper joint design?
7. set flow meter?
8. weld aluminum?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: MIG WELDING

MAIN HEADING: WELD JOINTS

OBJECTIVE: The learner will demonstrate MIG welding by welding mild steel plate in the flat, vertical and horizontal position using butt and T-weld joints with .035" wire.

CAN THE LEARNER:

1. set flow meter?
2. turn on welder?
3. set voltage?
4. set wire feed rate?
5. select and clean plate?
6. demonstrate torch control?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: LATHE

MAIN HEADING: OPERATION

OBJECTIVE: The learner will demonstrate the ability to operate lathe by machining a shaft to a pre-selected diameter.

CAN THE LEARNER:

1. set up machine?
2. select correct feed?
3. center shaft on lathe?
4. turn on lathe?
5. demonstrate proper safety practices?
6. measure shaft to nearest .001"?
7. cut shaft to with ± .001"?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 12

UNIT: PROJECTS

MAIN HEADING: DESIGN AND CONSTRUCTION

OBJECTIVE: The learner will demonstrate the ability to design and construct a project by planning or following a plan to build a project using skills learned.

CAN THE LEARNER:

1. design project?
2. develop bill of materials?
3. secure materials?
4. cut and bend material as needed?
5. weld, bolt or fasten as required by plan?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 10-11-12

UNIT: FUTURE FARMERS OF AMERICA

MAIN HEADING: FFA & VO-AG PROGRAM

OBJECTIVE: The learner will demonstrate an understanding of FFA's role in the curriculum by explaining the relationship of the FFA youth group and Vo-Ag classes and listing opportunities available to members of FFA to participate in activities involving horticulture.

CAN THE LEARNER:

1. list horticulture contest classes?
2. list membership requirements?
3. plan an exhibit at a fair?
4. participate in sales?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WELDING I & II
GRADE LEVEL: 10-11-12

UNIT: SUPERVISED OCCUPATIONAL EXPERIENCE
MAIN HEADING: PROJECTS

OBJECTIVE: The learner will demonstrate the ability to complete a supervised occupational experience program as required by state standards by completing their record book.

CAN THE LEARNER:

1. list acceptable projects?
2. explain value of projects?
3. complete record book?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: SAFETY

MAIN HEADING: GENERAL SAFETY RULES

OBJECTIVE: The learner will demonstrate safety by working safely in the shop.

CAN THE LEARNER:

1. list safety rules?
2. explain safety rules?
3. apply safety rules to work situation?
4. wear safety glasses and shield where required?
5. apply safety rules?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & [illegible]
GRADE LEVEL: 11-12

UNIT: SAFETY

MAIN HEADING: SAFETY EQUIPMENT

OBJECTIVE: The learner will demonstrate knowledge of safety by labeling all safety equipment and exits on a shop diagram.

CAN THE LEARNER:

1. memorize equipment location?
2. locate fire extinguishers?
3. locate first aid kit?
4. explain exit location?
5. demonstrate what to do in an emergency?
6. label a shop map?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: SUPERVISED OCCUPATIONAL EXPERIENCE
MAIN HEADING: PROJECTS

OBJECTIVE: The learner will demonstrate the ability to complete a project in metal shop by completing a record book.

CAN THE LEARNER:

1. explain project types?
2. develop plan?
3. complete project?
4. complete record book?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & II
GRADE LEVEL: 11-12

UNIT: FUTURE FARMERS OF AMERICA

MAIN HEADING: FFA & VO-AG PROGRAM

OBJECTIVE: The learner will demonstrate an understanding of FFA's role in the curriculum by explaining the relationship of the FFA youth group and Vo-Ag classes and listing opportunities available to members of FFA to participate in activities involving horticulture.

CAN THE LEARNER:

1. list horticulture contest classes?
2. list membership requirements?
3. plan an exhibit at a fair?
4. participate in sales?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: HAND TOOLS
MAIN HEADING: USAGE AND IDENTIFICATION

OBJECTIVE: The learner will demonstrate safety by safely using hand tools in the metal shop.

CAN THE LEARNER:

1. recognize the following tools: ball pean hammer; square; drill bit; hack saw; pliers; vise grip; C-clamps; adjustable wrench; screwdrivers-standard & phillips; files; awl; punches; file card; vises; box open end wrench
2. demonstrate proper use of above tools?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: SHEET METAL

MAIN HEADING: LAYOUT

OBJECTIVE: The learner will demonstrate the ability to make a layout by making a layout on sheet metal given a plan of a project.

CAN THE LEARNER:

1. use layout dye?
2. demonstrate use of layout tools?
3. interpret proper measurement?
4. list types of bends?
5. recognize allowances for bends?
6. complete a layout?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I
GRADE LEVEL: 11-12

UNIT: SHEET METAL

MAIN HEADING: SHEET METAL PROJECT

OBJECTIVE: The learner will demonstrate use of sheet metal equipment by cutting and bending sheet metal into a project.

CAN THE LEARNER:

1. identify sheet metal cutting equipment?
2. describe use of sheet metal cutting equipment?
3. cut and bend sheet metal into a project?
4. demonstrate use of sheet metal sheras; notcher; brake?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & II
GRADE LEVEL: 11-12

UNIT: METALS

MAIN HEADING: PROPERTIES

OBJECTIVE: The learner will demonstrate knowledge of metal terms by defining the following: ferrous; non-ferrous; alloy; steel; alloy steels; spark test; etc.

CAN THE LEARNER:

1. define above terms?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: METALS
MAIN HEADING: STRUCTURAL STEELS

OBJECTIVE: The learner will demonstrate the ability or order metal shapes by identifying 10 different metal shapes and giving their dimensions.

CAN THE LEARNER:

1. name the following shapes: I-beam; channel; angle; octagon; hexagon; flat bar; square bar; rod; plate; pipe; tubing?
2. identify measurements needed for ordering?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: SOLDERING

MAIN HEADING: SHEET METAL

OBJECTIVE: The learner will demonstrate the ability to solder by soldering pieces of sheet metal together.

CAN THE LEARNER:

1. list solder (types)?
2. apply flux (types)?
3. heat soldering copper to required temperature?
4. clean metal to standards required?
5. tin solder copper?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I
GRADE LEVEL: 11-12

UNIT: SOLDERING

MAIN HEADING: PIPE

OBJECTIVE: The learner will demonstrate copper soldering by soldering copper fittings together.

CAN THE LEARNER:

1. name types of fittings?
2. apply flux?
3. light torch?
4. solder fittings together?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I
GRADE LEVEL: 11-12

UNIT: POWER TOOLS
MAIN HEADING: POWER HACKSAWS

OBJECTIVE: The learner will demonstrate the safe and proper use of a band and reciprocating power hacksaw by using them properly.

CAN THE LEARNER:

1. list metals that may be cut?
2. secure metal in hacksaw?
3. list safety steps?
4. describe safety steps?
5. demonstrate safe use of equipment?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I
GRADE LEVEL: 11-12

UNIT: POWER TOOLS

MAIN HEADING: BENCH GRINDERS

OBJECTIVE: The learner will demonstrate the safe use of the bench grinders by safely grinding metal.

CAN THE LEARNER:

1. list parts of grinder?
2. set tool rest at proper distance?
3. list metals that may be used on grinder?
4. demonstrate safe operation while working?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: POWER TOOLS

MAIN HEADING: DRILL PRESS

OBJECTIVE: The learner will demonstrate the safe operation of a drill press by safely drilling holes in steel plates.

CAN THE LEARNER:

1. recognize parts of a drill press?
2. name drill bits: sizes; shanks?
3. list safety rules?
4. describe safety steps?
5. demonstrate safe use of drill equipment?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & II
GRADE LEVEL: 11-12

UNIT: TAP AND DIE

MAIN HEADING: THREADING

OBJECTIVE: The learner will demonstrate threading by cutting threads using taps and dies.

CAN THE LEARNER:

1. list types of threads?
2. select proper tap?
3. select proper drill bit for tap?
4. demonstrate proper use of equipment?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & [illegible]
GRADE LEVEL: 11-12

UNIT: OXY-ACETYLENE WELDING

MAIN HEADING: CUTTING

OBJECTIVE: The learner will demonstrate ability to cut mild steel plate 1/8" - 1" thick using the oxy-acetylene hand torch and radialgraph.

CAN THE LEARNER:

1. list equipment needed (hand torch, radialgraph)?
2. properly setup equipment?
3. setting pressures correctly adjusting torch to correct flame?
4. cut metal?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: OXY-ACETYLENE WELDING

MAIN HEADING: EQUIPMENT

OBJECTIVE: The learner will demonstrate understanding of oxy-acetylene welding and cutting by identifying and setup equipment needed for oxy-acetylene welding and cutting.

CAN THE LEARNER:

1. list equipment needed?
2. identify equipment?
3. setup equipment for welding and cutting?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & II
GRADE LEVEL: 11-12

UNIT: OXY-ACETYLENE WELDING

MAIN HEADING: ADJUSTING TORCH

OBJECTIVE: The learner will demonstrate ability to adjust torch by lighting an oxy-actylene torch and adjusting to carborizing, neutral, and oxidizing flames.

CAN THE LEARNER:

1. set pressures?
2. demonstrate turning on tanks properly?
3. light torch using proper equipment?
4. adjust torch to proper flame?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & II
GRADE LEVEL: 11-12

UNIT: OXY-ACETYLENE WELDING

MAIN HEADING: WELDING SKILLS

OBJECTIVE: The learner will demonstrate welding skills by oxy-acetylene weld plates in the flat position, using welding and brazing rod, the following weld joints: butt; beads with rod; beads without rod; T-weld; corner welds; cast iron.

CAN THE LEARNER:

1. list and describe welding positions: flat; vertical; overhead; horizontal?
2. diagram welding joints: butt; T-weld; corner?
3. list equipment needed: gas; torches; welding rod?
4. weld plates using proper technique?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & II
GRADE LEVEL: 11-12

UNIT: ARC WELDING

MAIN HEADING: EQUIPMENT

OBJECTIVE: The learner will demonstrate an understanding of equipment for arc welding by describing all equipment necessary for arc weldings.

CAN THE LEARNER:

1. list equipment needed for safe arc welding?
2. identify equipment?
3. safely demonstrate use of machine?
4. describe equipment?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: ARC WELDING

MAIN HEADING: POLARITY AND AMPERAGE

OBJECTIVE: The learner will demonstrate an understanding of polarity and amperage by setting and adjusting the welding power source for polarity and amperage.

CAN THE LEARNER:

1. explain amperage?
2. describe polarity?
3. describe reverse polarity and straight polarity?
4. set and adjust welding power source for polarity and amperage?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I
GRADE LEVEL: 11-12

UNIT: ARC WELDING

MAIN HEADING: ELECTRODES

OBJECTIVE: The learner will demonstrate an understanding of electrodes by identifying and explaining the uses of E6010, E6011, E6013; and E7018 electrodes.

CAN THE LEARNER:

1. explain what each letter and number of welding symbol is for?
2. explain use of the above?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & II
GRADE LEVEL: 11-12

UNIT: ARC WELDING

MAIN HEADING: PLATES

OBJECTIVE: The learner will demonstrate the ability to weld plates by welding mild steel plate using various welding joints in the flat and horizontal positions.

CAN THE LEARNER:

1. select proper electrodes (E6010; E6011; E6013; E7018)?
2. setup weld joints (beads; butt weld; T-weld)?
3. demonstrate multiple pass?
4. prepare metal for welding?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: METAL SHOP I & I[illegible]
GRADE LEVEL: 11-12

UNIT: PROJECT CONSTRUCTION

MAIN HEADING: PRACTICAL APPLICATION

OBJECTIVE: The learner will demonstrate the ability to weld a project by using the skills in metals and plan and construct 2 projects.

CAN THE LEARNER:

1. fabrication of project?
2. plan a project?
3. list materials needed for project?
4. plan and construct 2 projects?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: LEADERSHIP

MAIN HEADING: PUBLIC SPEAKING

OBJECTIVE: The student will demonstrate leadership skill by developing a speech, take part in a parliamentary procedure demonstration and attend leadership school.

CAN THE LEARNER:

1. Use proper steps in preparing a five to eight minute speech?
2. Recite his speech before a group?
3. Learn the basic purposes and principles used in parliamentary procedure?
4. Illustrate the classification of motions?
5. Demonstrate the proper procedure to use in solving a "given situation" in a parlimentary procedure contest?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: S. O. E. PROJECT

MAIN HEADING: RECORD KEEPING

OBJECTIVE: The student will demonstrate the ability in record keeping by proceeding with final summary.

CAN THE LEARNER:

1. Draw up plans - long range and short term?
2. Make basic agreement?
3. Develop a budget?
4. Keep on-going labor account?
5. Use double entry system-expenses and receipts?
6. Use proper inventory methods?
7. Proceed with final summary?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: ANIMAL SCIENCE

MAIN HEADING: MEATS

OBJECTIVE: The student will demonstrate an understanding of cuts of meats by identifying wholesale, retail, primal cuts and quality grades of beef, pork, and sheep.

CAN THE LEARNER:

1. I.D. wholesale and retail cuts, beef, pork, lamb?
2. I.D. primal cuts of carcass?
3. Select of quality cut of meat by yield grade?
4. Select of quality cut of meat by quality grade?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: SOILS

MAIN HEADING: SOIL JUDGING AND USE CLASSIFICATION

OBJECTIVE: The student will demonstrate techniques in soil judging and classification in conjunction with the soil judging contest by completing score card.

CAN THE LEARNER:

1. Memorize soil classes?
2. Recognize soil classes via samples?
3. Interpret soil classes via soil data?
4. Distinguish between soil classifications via soil data?
5. Evaluate local test site as to land class and best use classification?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: BASIC SOILS

MAIN HEADING: SOIL USE

OBJECTIVE: The student will demonstrate proper land capability use by proper application in relation to his projects.

CAN THE LEARNER:

1. List soil classes?
2. Explain best land use for each class?
3. Apply techniques best suited for each class?
4. Plan and implement best land use for each class as to crops, fertilizers, and management practices?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: ANIMAL SCIENCE

MAIN HEADING: CAREER OPPORTUNITIES

OBJECTIVE: The student will demonstrate an understanding of the job opportunities available in the different areas of the Agricultural Industry by discussing possible long range trends in Agriculture.

CAN THE LEARNER:

1. Identify jobs in industry?
2. Know companies necessary for each job title?
3. Relate to his special interests?
4. Discuss long range trends and goals?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: ANIMAL SCIENCE

MAIN HEADING: FITTING AND SHOWING

OBJECTIVE: The student will demonstrate proper techniques in preparing and showing of the animal used for his project by following those techniques during a showing.

CAN THE LEARNER:

1. Select proper tools?
2. Properly use all tools and equipment?
3. Dress appropriately for the occasion?
4. Show the animal to proper advantage?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: ANIMAL SCIENCE

MAIN HEADING: FEEDS AND FEEDING

OBJECTIVE: The student will demonstrate the ability to provide a balanced ration for a variety of animals by balancing a ration system for each animal.

CAN THE LEARNER:

1. Define each digestive system?
2. Name parts of each system?
3. Locate and discuss each part and its function?
4. Memorize feed requirements of different types of animals?
5. Describe different nutrients?
6. Balance ration to meet specific requirements?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: ANIMAL SCIENCE

MAIN HEADING: BREED IDENTIFICATION

OBJECTIVE: The student will demonstrate an understanding of breeds of livestock by identifying different types of livestock.

CAN THE LEARNER:

1. Identify the major breeds of beef, sheep, dairy, swine, horses, poultry, goats, and rabbits?
2. Explain the major function and purpose of different breeds within type?
3. Identify different types of livestock?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: ANIMAL SCIENCE

MAIN HEADING: MANAGEMENT PRACTICES AND EQUIPMENT USE

OBJECTIVE: (1) The student will demonstrate the ability to apply proper management practices, such as breed selection, feeding, care and marketing by using those practices. (2) Student will demonstrate the proper techniques in selection and use of tool and equipment.

CAN THE LEARNER:

1. Identify correct tool use in each operation?
2. Use tool correctly?
3. Practice good management practices?
4. Recognize the value of sound management?
5. Select best practice for his operation?
6. Administer, using the proper technique, medicine for prevention and cure of common ailments?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: F.F.A.

MAIN HEADING: F.F.A. CREED

OBJECTIVE: The student will demonstrate the ability to understand the real meaning of the creed by relating the meaning of the creed to themselves.

CAN THE LEARNER:

1. Memorize the creed?
2. Recite the creed before the class?
3. Enter a creed contest?
4. Relate the meaning of the creed to his identity to the study of Agriculture?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: F.F.A.
MAIN HEADING: AIMS AND PURPOSES

OBJECTIVE: The student will demonstrate the ability to apply the three basic purposes to classroom and extended classroom activities by illustrating major purposes with every day happenings?

CAN THE LEARNER:

1. List major purposes?
2. Describe major purposes?
3. Illustrate major purposes with every day happenings?

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LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: F.F.A.

MAIN HEADING: CODE OF ETHICS

OBJECTIVE: The student will demonstrate the ability of learning and using the proper code of ethics acceptable for all members by following the code.

CAN THE LEARNER:

1. Repeat the code?
2. Describe the meaning of the code?
3. Identify the reason for the code?
4. Practice proper behavior under different circumstances?
5. Evaluate the benefits received by knowing and following the code of ethics?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: F.F.A.

MAIN HEADING: SCOPE, STRUCTURE, AND DEGREES

OBJECTIVE: The student will demonstrate his understanding of the scope, structure, and degrees by developing a plan to reach his/her degree level.

CAN THE LEARNER:

1. Repeat the scope?
2. Explain the scope?
3. Repeat the structure?
4. Develop and follow a plan to obtain the desired degree?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: F.F.A.

MAIN HEADING: CHAPTER PROGRAM OF WORK

OBJECTIVE: The student will demonstrate the ability to develop and implement a program of work by doing such.

CAN THE LEARNER:

1. List the steps in developing program?
2. Explain the steps in developing program?
3. Construct a program?
4. Use said program?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: F.F.A.

MAIN HEADING: LEADERSHIP AND CONTESTS

OBJECTIVE: The student will demonstrate the ability to compete in livestock, dairy, poultry, crops, soils, speaking, creed, horticulture, shop, and forestry contests by accepting a leadership role.

CAN THE LEARNER:

1. Define standards?
2. Explain nomenclature?
3. Accept leadership role?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: AG SCIENCE I
GRADE LEVEL: 9

UNIT: TOOLS AND MACHINES

MAIN HEADING: BASIC MAINTENANCE

OBJECTIVE: The student will demonstrate hand machine maintenance by maintaining small wheel tractor and trailer.

CAN THE LEARNER:

1. Identify basic hand tools?
2. Properly use small hand tools?
3. Maintain lawn and garden equipment?
4. Maintain and operate small wheel tractor and trailer?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SMALL GAS ENGINES
GRADE LEVEL: 9

UNIT: SMALL GAS ENGINES

MAIN HEADING: BASIC PRINCIPLES OF OPERATION

OBJECTIVE: The student will demonstrate the ability to apply the basic principles of gasoline engines by completing a worksheet for a given engine.

CAN THE LEARNER:

1. List proper steps of operation?
2. Explain functions of basic parts?
3. Figure cubic inch displacement?
4. Use tool preperly?
5. Dismantle and reassemble engine?
6. Make final adjustments?
7. Trouble shoot?
8. Major repair job?
9. Fill out complete work sheet?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SMALL GAS ENGINES
GRADE LEVEL: 9

UNIT: SMALL GAS ENGINES

MAIN HEADING: MAJOR COMPONENTS

OBJECTIVE: The student will demonstrate an understanding of the thirteen major components and the relationship of the parts by locating specifications for each part.

CAN THE LEARNER:

1. Name all parts?
2. Describe function of each part?
3. Locate specifications for each part?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SMALL GAS ENGINES
GRADE LEVEL: 9

UNIT: TOOLS

MAIN HEADING: NAME AND USE OF TOOLS AND EQUIPMENT

OBJECTIVE: The student will demonstrate the ability to use tools by actually using the tools.

CAN THE LEARNER:

1. Properly name all tools?
2. Use and calibrate a micrometer?
3. Correctly measure parts of the engine?
4. Use all tools?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: POWER MECHANICS
GRADE LEVEL: 10-11-12

UNIT: DIESEL ENGINES

MAIN HEADING: BASIC PRINCIPLES OF OPERATION

OBJECTIVE: The student will demonstrate an understanding of principles of a diesel engine by explaining function of basic parts of a diesel engine.

CAN THE LEARNER:

1. List proper steps of operation?
2. Define uses:
   a. Mobile?
   b. Marine?
   c. Advantages and Disadvantages?
3. Explain function of basic parts?
4. Explain use of tools properly?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: POWER MECHANICS
GRADE LEVEL: 10-11-12

UNIT: GASOLINE AND DIESEL ENGINES

MAIN HEADING: PHYSICS AND ENGINEERING

OBJECTIVE: The student will demonstrate an understanding of the basic laws of physics and engineering as related to engines by explaining the theories listed below.

CAN THE LEARNER:

1. Understand units of measurement?
2. Explain the theory of:
   a. Energy
   b. Heat flow
   c. Pressure and volume
   d. Torque
   e. Engine rating
   f. Displacement
   g. Compression ratio
   h. Superchargers
   i. Fuel injection
   j. Governors?
3. Apply principles of work and power?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: POWER MECHANICS
GRADE LEVEL: 10-11-12

UNIT: DIESEL ENGINES

MAIN HEADING: NOMENCLATURE AND FUNCTIONS OF THE PARTS OF A DIESEL ENGINE

OBJECTIVE: The student will demonstrate an understanding of the functions of the parts of a diesel engine by explaining the functions.

CAN THE LEARNER:

1. I.D. Parts?
2. Explain functions of parts?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: POWER MECHANICS
GRADE LEVEL: 10-11-12

UNIT: GAS ENGINES

MAIN HEADING: NAME AND FUNCTIONS OF PARTS OF A GAS ENGINE

OBJECTIVE: The student will demonstrate an understanding of the functions of the parts of a multi cylinder engine by explaining them.

CAN THE LEARNER:

1. I.D. parts?
2. Explain functions of parts?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: POWER MECHANICS
GRADE LEVEL: 10-11-12

UNIT: GASOLINE AND DIESEL

MAIN HEADING: HYDRAULICS

OBJECTIVE: The student will demonstrate the ability to analyze the basic hydraulics systems by trouble shooting a hydraulic system?

CAN THE LEARNER:

1. Define hydraulics?
2. Explain the operations of hydraulics?
3. Name the parts of a hydraulic system?
4. Analyze and trouble shoot a hydraulic system?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: POWER MECHANICS
GRADE LEVEL: 10-11-12

UNIT: GAS & DIESEL ENGINES

MAIN HEADING: LUBRICATION

OBJECTIVE: The student will demonstrate an understanding of the lubrication requirements of gasoline and diesel engines by selecting proper oil for a given power plant.

CAN THE LEARNER:

1. Define basic lubrication principles?
2. List requirements of engine types?
3. Explain lubricating systems?
4. Explain properties of oils and greases?
5. Select proper oil for a given power plant?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: POWER MECHANICS
GRADE LEVEL: 10-11-12

UNIT: DIESEL ENGINES

MAIN HEADING: CLASSIFICATION OF DIESEL ENGINES

OBJECTIVE: The student will demonstrate an understanding of the classification of diesel engines by identifying them according to criteria listed below.

CAN THE LEARNER:

1. Name types of diesel engines?
2. Identify according to:
    - a. Design?
    - b. Use?
    - c. Structure?
    - d. Requirements?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: CHAIN SAW

OBJECTIVE: The student will demonstrate the ability to use a chainsaw by demonstrating safe and proper use of the chainsaw in falling, bucking and sawing.

CAN THE LEARNER:

1. Name the major parts of a chainsaw?
2. Explain the functions of the major parts?
3. Apply minor adjustment techniques?
4. Practice proper maintenance procedures?
5. Demonstrate safe and proper use of the chainsaw in:
    a. falling?
    b. bucking?
    c. sawing?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: PARTS AND TYPES OF FOREST FIRES

OBJECTIVE: The student will demonstrate an understanding of forest fires by discussing five types of forest fires.

CAN THE LEARNER:

1. Name the three parts of a fire?
2. Discuss the five types of forest fires?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: GRADING AND MARKETING

OBJECTIVE: The student will demonstrate the ability to grade and market forest products by identifying wood products and implementing methods of marketing.

CAN THE LEARNER:

1. Estimate cruise standing timber?
2. Use proper techniques in scaling logs?
3. Identify wood products and apply methods of marketing?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: LAWS AND REGULATIONS

OBJECTIVE: The student will demonstrate the ability to apply the laws and regulations as they pertain to the forestry industry by completing simulation exercises.

CAN THE LEARNER:

1. Name laws and regulations to different situations?
2. Describe laws and regulations?
3. Apply laws and regulations?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: RECREATION

OBJECTIVE: The student will demonstrate an understanding of recreation and how it can be adopted to forestry areas by selecting the best possible recreational facilities to be employed for a given situation.

CAN THE LEARNER:

1. Define difference forms of recreation?
2. Explain the requirements necessary for different forms of recreation?
3. Select best possible recreational facilities to be employed for a given situation?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: CAREERS

OBJECTIVE: The student will demonstrate an understanding of career opportunities available in the forestry industry by explaining skills, training and requirements for different jobs.

CAN THE LEARNER:

1. List jobs available?
2. Explain skills, training, and requirements for different jobs?

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT: HISTORY

MAIN HEADING: HISTORY & SIGNIFICANCE

OBJECTIVE: The student will demonstrate an understanding of the history and significance of forestry by explaining significance of forestry to our current economy and life style.

CAN THE LEARNER:

1. Relate to forestry as it pertains to:
   a. Washington State?
   b. Unites States?
   c. World?
2. Explain the significance of forestry to our current economy and life style?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: DENDROLOGY

OBJECTIVE: The student will demonstrate an understanding of the major species of trees in our area by collecting and mounting samples of major species.

CAN THE LEARNER:

1. I.D. of major species?
2. Collect and mount samples?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: REGENERATION OF FORESTRY

OBJECTIVE: The student will demonstrate the ability of regeneration by preparing and planting.

CAN THE LEARNER:

1. Describe types of Cone Harvest?
2. Explain genetics?
3. Discuss nursery practices?
4. Prepare and plant?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: SILVICS

OBJECTIVE: The student will demonstrate an understanding of the botany of major species of trees by preparing, mounting and naming parts of trees.

CAN THE LEARNER:

1. I.D. parts of the tree?
2. Prepare, mount, and name parts of trees?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: SILVICULTURE

OBJECTIVE: The student will demonstrate an understanding of silviculture practices as related to forest stand improvement by discussing methods of fertilizing, thinning, brush, weed, and insect control.

CAN THE LEARNER:

1. Name methods of:
    a. Fertilizing?
    b. Thinning?
    c. Brush, Weed, and Insect Control?
2. Discuss methods of same?

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: MAPS AND LEGAL DESCRIPTION

OBJECTIVE: The student will demonstrate the ability to read and locate areas on a map according to legal description by recording survey and compass work.

CAN THE LEARNER:

1. Mark areas on map?
2. Write legal descriptions?
3. Use and record survey and compass work?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: LOGGING PRACTICES

OBJECTIVE: The student will demonstrate the ability to distinguish different methods of logging by analyzing different methods of logging.

CAN THE LEARNER:

1. Name methods of logging?
2. Explain different methods of logging?
3. Explain different requirements of logging?
4. Analyze different methods of logging?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FORESTRY
GRADE LEVEL: 10-11-12

UNIT:

MAIN HEADING: TIMBER CRUISING AND LOG SCALING

OBJECTIVE: The student will demonstrate the ability to cruise timber and scale logs by doing same.

CAN THE LEARNER:

1. Name the methods of cruising?
2. Explain the methods of cruising?
3. Use the methods of cruising?
4. Use tools in scaling logs?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SC NCE
GRADE LEVEL: 10-11-12

UNIT: F.F.A. LEADERSHIP

MAIN HEADING: F.F.A.

OBJECTIVE: The student will demonstrate the ability to implement a chapter program of work by demonstrating leadership traits.

CAN THE LEARNER:

1. Choose goals?
2. Develop proper steps?
3. Put the plan into action?
4. Demonstrate leadership traits?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SC[illegible]NCE
GRADE LEVEL: 10-11-12

UNIT: AGRICULTURE

MAIN HEADING: FARM MANAGEMENT

OBJECTIVE: The student will demonstrate an understanding of a complete farm plan by applying the plan in a simulation situation.

CAN THE LEARNER:

1. Know different types of farming?
2. Explain different types of farming?
3. Apply different methods of:
    a. records?
    b. financing?
    c. planning?
    d. taxes?
    e. insurance?
    f. crops, soils, fertilizers, chemicals?
    g. livestock production?
    h. buildings and equipment?
    i. marketing practices?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: F.F.A.

MAIN HEADING: PARLIAMENTARY PROCEDURE

OBJECTIVE: The student will demonstrate the ability to conduct and take part in public meetings by conducting a meeting.

CAN THE LEARNER:

1. List the purposes and principles?
2. Know the order of business?
3. Use the gavel?
4. List classifications of motions?
5. List progress of a motion?
6. Know the methods of voting?
7. Conduct and/or take part in a meeting?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: F.F.A.

MAIN HEADING: CONTESTS

OBJECTIVE: The student will demonstrate contest participation by competing in the contests of their interests.

CAN THE LEARNER:

1. Apply past knowledge learned?
2. Compete with other students?
3. Achieve goals and have fellowship.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: F.F.A.

MAIN HEADING: AWARDS AND DEGREES

OBJECTIVE: The student will demonstrate the ability to work toward the degrees and awards available by selecting specific activities that will lead to a degree or award.

CAN THE LEARNER:

1. Set goals to reach award?
2. Relate to activities?
3. Properly fill out applications?
4. Select activities of interest?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: CROPS AND SOILS

MAIN HEADING: SOILS

OBJECTIVE: The student will demonstrate the ability to evaluate different soils according to class and best usage by determining best conservation practices to use.

CAN THE LEARNER:

1. Determine per cent slope?
2. Determine depth?
3. Estimate erosion?
4. Select permeability?
5. Apply ph factor?
6. Determine best conservation practices to use?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIE[illegible]
GRADE LEVEL: 10-11-12

UNIT: F.F.A. LEADERSHIP

MAIN HEADING: PUBLIC SPEAKING

OBJECTIVE: The student will demonstrate leadership skills by developing and giving a speech in class and entering a contest.

CAN THE LEARNER:

1. Use proper steps in developing a speech?
2. Use the weighting factors used in judging a speech according to:
   a. content
   b. voice
   c. stage presence
   d. power of expression
   e. response to questions
   f. general effect?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SC[illegible]NCE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: RECORD KEEPING

OBJECTIVE: The student will demonstrate the ability in record keeping by completing a final summary form.

CAN THE LEARNER:

1. Develop short term and long range plans?
2. Establish basic working agreement?
3. Develop a budget?
4. Keep on-going labor records?
5. Use double entry system:
    a. expenses
    b. receipts?
6. Use all methods of inventory?
7. Complete a final summary form?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: GENETICS

OBJECTIVE: The student will demonstrate an understanding of the prinicples of genetics by explaining the terms listed below.

CAN THE LEARNER:

1. Define genetics?
2. Explain:
    a. dominance
    b. quantitative genetics
    c. artificial insemination
    d. in-breeding
    e. cross-breeding
    f. line breeding
    g. hybrids?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: SWINE

OBJECTIVE: The student will demonstrate the proper techniques used in swine production by judging swine.

CAN THE LEARNER:

1. I.D. different breeds of swine?
2. Evaluate different types of swine?
3. Describe selection methods of breeding stock?
4. Apply feeding and management practices?
5. Explain disease and parasite control?
6. Define management practices of growing and finishing hogs?
7. List the methods of marketing?
8. Name the parts of a hog?
9. Demonstrate judging of swine?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIE[illegible]E
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE
MAIN HEADING: RABBITS

OBJECTIVE: The student will demonstrate the proper techniques used in rabbit production by judging rabbits.

CAN THE LEARNER:

1. I.D. different breeds of rabbits?
2. Evaluate different types of rabbits?
3. Describe selection methods of breeding stock?
4. Apply feeding and management practices?
5. Explain disease and parasite control?
6. Define management practices of growing and finishing rabbits?
7. List the methods of marketing?
8. Name the parts of a rabbit?
9. Demonstrate judging of rabbits?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SC[illegible]NCE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: POULTRY

OBJECTIVE: The student will demonstrate the proper techniques used in poultry production by judging poultry.

CAN THE LEARNER:

1. I.D. different breeds of poultry?
2. Evaluate different types of poultry?
3. Describe selection methods of breeding stock?
4. Apply feeding and management practices?
5. Explain disease and parasite control?
6. Define management practices of growing and finishing poultry?
7. List the methods of marketing?
8. Name the parts of poultry?
9. Demonstrate judging of poultry?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SC[illegible]CE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: HORSES

OBJECTIVE: The student will demonstrate the proper techniques used in horse production by judging horses.

CAN THE LEARNER:

1. I.D. different breeds of horses?
2. Evaluate different types of horses?
3. Describe selection methods of breeding stock?
4. Apply feeding and management practices?
5. Explain disease and parasite control?
6. Define management practices of growing and finishing horses?
7. List the methods of marketing?
8. Name the parts of a horse?
9. Demonstrate judging of horses?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: SHEEP

OBJECTIVE: The student will demonstrate the proper techniques used in sheep production by judging sheep.

CAN THE LEARNER:

1. I.D. different breeds of sheep?
2. Evaluate different types of sheep?
3. Describe selection methods of breeding stock?
4. Apply feeding and management practices?
5. Explain disease and parasite control?
6. Define management practices of growing and finishing sheep?
7. List the methods of marketing?
8. Name the parts of a sheep?
9. Demonstrate judging of sheep?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: DAIRY

OBJECTIVE: The student will demonstrate the proper techniques used in dairy production by judging dairy cattle.

CAN THE LEARNER:

1. I.D. different breeds of dairy cattle?
2. Evaluate different types of dairy cattle?
3. Describe selection methods of breeding stock?
4. Apply feeding and management practices?
5. Explain disease and parasite control?
6. Define management practices of growing and finishing dairy cattle?
7. List the methods of marketing?
8. Name the parts of dairy cattle?
9. Demonstrate judging of dairy cattle?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ADVANCED ANIMAL SCIENCE
GRADE LEVEL: 10-11-12

UNIT: ANIMAL SCIENCE

MAIN HEADING: BEEF

OBJECTIVE: The student will demonstrate the proper techniques used beef production by judging beef cattle.

CAN THE LEARNER:

1. I.D. different breeds of beef cattle?
2. Evaluate different types of beef cattle?
3. Describe selection methods of breeding stock?
4. Apply feeding and management practices?
5. Explain disease and parasite control?
6. Define management practices of growing and finishing beef cattle?
7. List the methods of marketing?
8. Name the parts of beef cattle?
9. Demonstrate judging of beef cattle?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: LAB SAFETY PROCEDURES

OBJECTIVE: Given a list of safety rules to be used in the laboratory, the student will demonstrate the correct safety procedures by applying them in lab experiments.

CAN THE LEARNER:

1. List the general safety rules?
2. Recognize the hazzards involved using electricity?
3. Apply those safety precautions when using electrical equipment by using protective devices?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: PARTS AND SYMBOLS

OBJECTIVE: Given an inventory of the basic electrical parts and corresponding symbols, the student will demonstrate the ability to use them when performing experiments by correctly using each part and symbol.

CAN THE LEARNER:

1. Memorize and draw electrical parts and symbols?
2. Identify the components to be used for each experiment?
3. Use the components to perform the required experiments?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: SOURCES OF ELECTRICITY

OBJECTIVE: Given a list of various sources of electrical energy, the student will demonstrate understanding of sources of electricity by performing experiments in producing electrical energy.

CAN THE LEARNER:

1. List sources of electrical energy?
2. Recognize various sources of electrical energy?
3. Demonstrate methods used to produce electrical energy?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: INTRODUCTION TO CIRCUITS

OBJECTIVE: Given the basic requirements of an electrical circuit, the student will demonstrate use of circuit by constructing a series - parallel and combination circuits through the use of switches.

CAN THE LEARNER:

1. Define series parallel and combinations circuits?
2. Identify a series parallel and combination circuits?
3. Demonstrate the use of each circuit by constructing series parallel and combination circuits?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: ELECTRICAL MEASUREMENT

OBJECTIVE: Given basic requirements, the student will demonstrate the ability to use electrical measuring instruments by measuring AC and DC voltages and current.

CAN THE LEARNER:

1. Name the various electrical measuring instruments?
2. Recognize the various electrical measuring instruments?
3. Measure AC and DC voltages and current?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: VOLTAGE DISTRIBUTION IN DC CIRCUITS

OBJECTIVE: Given the basic requirements of voltage distribution in series - parallel and combination circuit, the student will demonstrate application of voltage changes in series - parallel and combination circuits by applying Kirchoffs Law.

CAN THE LEARNER:

1. Define voltage distribution in series - parallel and combination circuits?
2. Identify voltage distribution in series - parallel and combination circuits?
3. Demonstrate through experiments how voltage is distributed in series - parallel and combination circuits?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: CURRENT DISTRIBUTION IN DC CIRCUITS.

OBJECTIVE: Given the basic requirements of current distribution in a series - parallel and combination circuit, the student will demonstrate application of current changes in a series - parallel and combination circuits by applying Kirchchoff's Law.

CAN THE LEARNER:

1. Define current distribution in series - parallel and combination circuits?
2. Identify current distribution in series - parallel and combination circuits?
3. Demonstrate through experiments how voltage is distributed in series - parallel and combination circuits?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: RESISTANCE - RESISTORS
OHMS LAWS

OBJECTIVE: Given the basic requirements relating to the nature of resistance, the student will demonstrate the effect of resistance in electrical circuits by application of resistance values through the use of color coded resistors.

CAN THE LEARNER:

1. Memorize and draw various resistors and their values?
2. Identify different kinds of resistors by size and color codes?
3. Demonstrate through practice the values of various resistances by using the color code chart?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: RESISTIVE CIRCUITS

OBJECTIVE: Given the basic requirements relating to the nature of resistance in a series, parallel and compound circuit, the student will demonstrate the effect of resistance in the above circuits through the use of Ohms Law and by application in laboratory experiments.

CAN THE LEARNER:

1. Define resistance in series - parallel and combination circuit?
2. Identify resistance in series - parallel and combination circuit?
3. Demonstrate through experiments how resistance is distributed in series - parallel and combination circuits?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: MAGNETISM

OBJECTIVE: Given the basic requirements relating to the nature of magnetism and its effects, the student will demonstrate these effects by using permanent and temporary magnets through application in laboratory experiments.

CAN THE LEARNER:

1. Define poles of a magnet, magnetic field?
2. Identify magnetic fields and induced magnetism?
3. Demonstrate magnetic effect through experiments using temporary and permanent magnets?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: ELECTROMAGNETISM

OBJECTIVE: Given the basic requirements relating to the nature of electromagnetism and its effects, the student will demonstrate these effects by using electromagnets through application in laboratory experiments.

CAN THE LEARNER:

1. Define the characteristics of a magnetic field around a conductor carrying a current and of a magnetic field around a coil carrying a current?
2. Identify the nature of electromagnetism in a current carrying conductor?
3. Demonstrate electromagnetic effect in a current carrying conductor and a current in a wound coil?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: ALTERNATING CURRENT

OBJECTIVE: Given the basic requirements relating to the nature of alternating current, the student will demonstrate the generation and measurement of alternating current by application in laboratory experiments.

CAN THE LEARNER:

1. Define the characteristics of alternating current?
2. Identify the characteristics of alternating current?
3. Demonstrate the generation and measurement of alternating current voltage?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: ELECTRICAL ENERGY AND POWER

OBJECTIVE: Given the basic requirements relating to electrical energy and power, the student will demonstrate the use of units of electrical power and how power is used in AC and DC circuits by application in laboratory experiments.

CAN THE LEARNER:

1. Define the units of electric power and how it is used in DC circuit.
2. Identify the units of electrical power?
3. Demonstrate the units of electrical power through the use of power formula in an AC and DC circuit?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:
MAIN HEADING: INDUCTANCE

OBJECTIVE: Given the basic requirements relating to induction in an AC or DC circuit, the student will demonstrate the use of inductance, induction and units of inductance by application in laboratory experiment.

CAN THE LEARNER:

1. Define the effect of inductance in AC and DC circuit in series and parallel inductors?
2. Identify the effect of inductance in AC and DC circuit in series and parallel inductors?
3. Demonstrate the effect of inductance in AC and DC series and parallel inductive circuits?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: DC CAPACITANCE

OBJECTIVE: Given the basic requirements relating to how a capacitor charges and discharges, the student will demonstrate the mathematical relationship between charge, capacitance, and voltage by application in laboratory experiment.

CAN THE LEARNER:

1. Define charging and discharging a capacitor, units of capacitance and factors that affect capacitance and charging and discharging time of a capacitor?

2. Identify the various factors affecting capacitance and various types of capacitors?

3. Demonstrate the factors that affect capacitance in various types of capacitors. Calculate the capacitance of a capacitor and convert farads to microfarads. Time the charge and discharge of several values of capacitors?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: CAPACITIVE REACTANCE

OBJECTIVE: Given the basic requirements relating to capacitive reactance, the student will demonstrate the relationship between capacitance and frequency by using capacitors in a circuit.

CAN THE LEARNER:

1. Define capacitive reactance and its relationship to capacitance and frequency?
2. Identify the factors of frequency and capacitance and the relationship to capacitive reactance?
3. Demonstrate capacitive reactance by observing the effects of capacitance and frequency with an AC voltage in useful circuit applications?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: IMPEDANCE

OBJECTIVE: Given the basic requirement relating to impedance in R-L and R-C and R-L-C circuits, the student will demonstrate this relationship through unit of measurement values of voltages and computing voltages in a laboratory experiment.

CAN THE LEARNER:

1. Define impedance and its relationship to voltages in R-L, R-C and R-L-C circuits?
2. Identify the factors affecting impedance in a (Resistance-Inductor) = (Resistance-Capacitance), and (Resistance-Inductance capacitance) circuit?
3. Demonstrate impedance by measuring values of voltages in R-L - R-C - R-L-C circuit?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: TRANSFORMERS

OBJECTIVE: Given the basic requirements relating to the basic operation of a transformer, the student will demonstrate the effects of turns ratio to voltage and current by application in a laboratory experiment.

CAN THE LEARNER:

1. Define a transformer and transformer operation?
2. Identify the factors affecting voltage and current in relation to turns ratio?
3. Demonstrate transformer operation and practical application in an electrical circuit using turns ratio and its relationship to voltage and current?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: MOTORS

OBJECTIVE: Given the basic requirements relating to the operating principles and use of electric motors, the student will demonstrate the operating principles and control of DC motors by application in a laboratory experiment.

CAN THE LEARNER:

1. Define the operation of a DC motor and motor control?
2. Identify factors affecting the operation and control of a DC motor?
3. Demonstrate motor operation and control by observing the operation of a DC motor?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BASIC ELECTRICITY
GRADE LEVEL:

UNIT:

MAIN HEADING: ELECTRICAL CAREER OPPORTUNITIES

OBJECTIVE: Given the basic requirements relating to career opportunities in the electrical field, the student will demonstrate understanding of electrical career opportunities, career objectives and job levels.

CAN THE LEARNER:

1. List areas of career opportunities?
2. Identify various career objectives and job levels?
3. Discuss various job opportunities available?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 1 & 2
GRADE LEVEL: 9-12

UNIT:

MAIN HEADING: ATTENDANCE

OBJECTIVE: The student will demonstrate responsibility by maintaining an 85% attendance record.

CAN THE LEARNER:

SUBJECT: Typing 1 & 2
GRADE LEVEL: 9-12

UNIT: Basic Typing Skills

MAIN HEADING: KEYBOARD & TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to use correct typing position and home-row position at the machine by sitting in the correct position and typing with proper hand and finger techniques.

CAN THE LEARNER:

1. Repeat the steps to follow in getting ready to type (body erect, feet on floor, fingers curved over home row keys, wrists low and relaxed, forearms parallel to slant of keyboard, eyes on copy)?
2. Explain what is meant by "home-row position"?
3. Use good posture and proper technique while typing by touch?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 1 & 2
GRADE LEVEL: 9-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: KEYBOARD & TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type efficiently by using each of the machine parts in the proper way.

CAN THE LEARNER:

1. Name each commonly used part of the typewriter?
2. Explain the use of each special key on the typewriter (backspace key, margin-release key, repeat keys, etc.)?
3. Describe the correct procedure for paper insertion and paper release?
4. Discuss the proper use of each commonly used part of the typewriter (line-space regulator, tabulator clear and set keys, ribbon control, margin stops, paper guide, etc.)?
5. Use each part of the typewriter in a correct, efficient way?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 1 & 2
GRADE LEVEL: 9-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: KEYBOARD AND TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type with good kinesthetic response by using rhythmic stroking techniques on letter, number, and symbol keys.

CAN THE LEARNER:

1. Define "home-row" position on the typewriter keyboard?
2. Locate each letter, number, and symbol key on the keyboard?
3. Explain the proper reach and stroking technique for each letter, number, and symbol key?
4. Use smooth, continuous rhythmic stroking techniques when typing letter, number and symbol keys?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 1 & 2
GRADE LEVEL: 9-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: KEYBOARD & TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type on both pica and elite typewriters by completing drills and typing exercises on both kinds of machines.

CAN THE LEARNER:

1. Define the terms "pica" and "elite"?
2. Recognize the difference in appearance between the two kinds of type?
3. Identify the number of spaces per inch for each type?
4. Calculate and use the basic typing measurements for each kind of type; i.e., center points, margins, vertical and horizontal spacing?
5. Explain the adjustments to be made on both pica and elite typewriters when typing on various sizes of paper?
6. Illustrate the use of both pica and elite type by typing tables, manuscripts, and person/business letters?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 1 & 2
GRADE LEVEL: 9-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: KEYBOARD & TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type with speed and accuracy by typing guided timed writes at increasingly faster speeds with fewer errors per minute.

CAN THE LEARNER:

1. Define the procedures to follow in order to type with increased speed and greater accuracy?
2. Explain the importance of proper technique in developing speed and accuracy?
3. Demonstrate efficient manipulation of the typewriter parts in order to build speed (i.e., hitting space bar more quickly and returning carriage more rapidly)?
4. Use smooth, continuous stroking techniques to achieve increasingly faster speed goals?
5. Use deliberately controlled finger movements to achieve greater accuracy?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: MODEL OFFICE
GRADE LEVEL: 12

UNIT:

MAIN HEADING: ATTENDANCE

OBJECTIVE: The learner will demonstrate responsibility by maintaining an 85% attendance record.

CAN THE LEARNER:

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: MODEL OFFICE
GRADE LEVEL: 12

UNIT:

MAIN HEADING: PERSONAL QUALITIES

OBJECTIVE: The learner will demonstrate an understanding of personal qualities essential as an effective member of society and the business world by practicing a professional attitude toward employer, the job, and all work performed on the job.

CAN THE LEARNER:

1. Explain the individual importance of employer-employee and employee-employee relationships?
2. Demonstrate desirable character and personality traits which made for successful relations with others?
3. Recognize acceptable and unacceptable human relations/etiquette in the business office?
4. Identify the basic fundamentals of office etiquette?
5. Recognize the importance of responsibility, loyalty, dependability, attendance, cooperation, and initiative in an office situation?
6. Practice a professional attitude toward employer, the job, and all work performed on the job?

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LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: MODEL OFFICE
GRADE LEVEL: 12

UNIT:

MAIN HEADING: EVALUATION PROCEDURES

OBJECTIVE: The learner will demonstrate an understanding of evalutaion procedures and standards which students will encounter as an employee by explaining two basic evaluation models.

CAN THE LEARNER:

1. Compose and type application forms, application letters, and resumes?
2. Describe basic interviewing techniques used by both employer and prospective employee?
3. Apply learning in a mock-interview situation?
4. Explain daily employee evaluation used in a working situation?
5. Explain the significance of good grooming and dress for the business office?
6. Construct and complete an employee rating sheet for self-evaluation?
7. Explain two basic evaluation models?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: MODEL OFFICE
GRADE LEVEL: 12

UNIT:

MAIN HEADING: ORGANIZATIONAL FRAMEWORK

OBJECTIVE: The learner demonstrates an ability to work in an organizational framework which enables a business to operate efficiently by training succeeding employee replacement in the framework of the simulated office (at least three job changes per year).

CAN THE LEARNER:

1. Explain the foundations of office organization and the relationship of various departments to the whole organization?

2. Define lines of authority in business organizations and the flow of work within that framework?

3. Prepare necessary forms and distinguish the internal flow of paper in the business?

4. Recognize the interrelationship of one business form to another?

5. Operate under the proper chain of command when making requests or complaints?

6. Train succeeding employee replacement in the framework of the simulated office (at least three job changes per year)?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: MODEL OFFICE
GRADE LEVEL: 12

UNIT:

MAIN HEADING: VOCATIONAL PROFICIENCY

OBJECTIVE: The learner will demonstrate vocational proficiency by proper performance in a simulated office work situation.

CAN THE LEARNER:

1. Know and demonstrate existing business standards and those generally accepted for specific office tasks?
2. Explain the need for file records and a knowledge of filing systems in use?
3. Describe currently used filing systems?
4. Maintain alphabetical and numerical files?
5. Demonstrate how to listen effectively and take instructions?
6. Effectively organize work and work area?
7. Place and receive phone calls by identifying and using appropriate telephone techniques for answering, speaking, listening, giving and receiving information (ex: prompt answer, tack and courtesy, clarity of speech, proper follow-through of message)?
8. Handle company correspondence, maintenance of simple office records, their interrelationship, and the handling of money transactions?
9. Use proper forms and skills of written communications, shorthand, typewriting, and proofreading involved in an office situation?
10. Operate available office equipment (typewriter, office adding and calculating machines)?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: MODEL OFFICE
GRADE LEVEL: 12

UNIT:

MAIN HEADING: PERSONAL AND OFFICE RESOURCES

OBJECTIVE: The learner demonstrates an ability to cope with problems which he/she might encounter in future employment by establishing priorities and working under pressure in a simulated situation.

CAN THE LEARNER:

1. Use various reference information sources (ex: 20,000 Workds, Dictionary, National Zip Code Directory, Telephone Book, and Reference Manual for Stenographers and Typists)?
2. Explain specific routines and duties for various simulated positions and the adaption and transfer of learning to each position?
3. Explain how to relate previous learning and experiences to solve specific problems and perform assigned duties?
4. Recognize business operations and solve problems - why something is done, rather than just how?
5. Establish priorities and to work under pressure?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: ATTENDANCE

OBJECTIVE: The learner will demonstrate responsibility by maintaining an 85% attendance record.

CAN THE LEARNER:

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: KEYBOARD AND TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type efficiently by using each of the machine parts in the proper way.

CAN THE LEARNER:

1. Name each commonly used part of the typewriter?
2. Explain the use of each special key on the typewriter (backspace key, margin-release key, repeat key, etc.)?
3. Describe the correct procedure for paper insertion and paper release?
4. Discuss the proper use of each commonly used part of the typewriter (line-space regulator, tabulator clear and set keys, ribbon control, margin release, margin stops, paper guide, etc.)?
5. Use each part of the typewriter in a correct, efficient way?
6. Demonstrate the ability to change a typewriter ribbon?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: KEYBOARD AND TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type on both pica and elite typewriters by completing drills and typing exercises on both kinds of machines.

CAN THE LEARNER:

1. Define the terms "pica" and "elite"?
2. Recognize the difference in appearance between the two kinds of type?
3. Identify the number of spaces per inch for each type?
4. Calculate and use the basic typing measurements for each kind of type; i.e., center points, margins, vertical and horizontal spacing.
5. Explain the adjustments to be made on both pica and elite typewriters when typing on various sizes of paper?
6. Illustrate the use of both pica and elite type by typing tables, manuscripts, and personal/business letters?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: KEYBOARD AND TECHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type with speed and accuracy by typing guided times writes at increasingly faster speeds with fewer errors per minute in order to meet entrance standards for an office career as a typist (for example).

CAN THE LEARNER:

1. Define the procedures to follow in order to type with increased speed and greater accuracy?
2. Explain the importance of proper technique in developing speed and accuracy?
3. Demonstrate efficient manipulation of the typewriter parts in order to build speed (i.e., hitting space bar more quickly and returning carriage more rapidly)?
4. Use smooth, continuous stroking techniques to achieve increasingly faster speed goals?
5. Use deliberately controlled finger movements to achieve greater accuracy?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC TYPING SKILLS

MAIN HEADING: ERROR CORRECTION

OBJECTIVE: The learner will demonstrate an ability to use various correcting methods in an efficient manner by correcting errors in their work.

CAN THE LEARNER:

1. Describe the correct method of erasing errors with a typing eraser?
2. Use the correct method of erasing errors with a typing eraser?
3. List the various correction methods available to him/her (example: liquid paper, ko-rec-type, e-z rase paper)?
4. Use the correct method of erasing second sheets on carbon copies?

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC PRODUCTION SKILLS

MAIN HEADING: OPEN, RULED, AND BOXED TABLES

OBJECTIVE: The learner will demonstrate an ability to type open, ruled and boxed tables in correct format.

CAN THE LEARNER:

1. Explain how to set up tables by using the backspace method for the longest line in each column (horizontal centering)?
2. Repeat how to center vertically?
3. Set up and type pre-arranged material in columns, with or without columnar headings, in open table arrangement?
4. Set up and type pre-arranged material in columns, with or without columnar headings, in closed or boxed table style, drawing lines with pen and/or the typewriter?
5. Set up and type rough draft material in columns, with or without columnar headings, in open, closed, or boxed table style?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC PRODUCTION SKILLS

MAIN HEADING: ROUGH DRAFT

OBJECTIVE: The learner will demonstrate an ability to interpret rough draft copy by typing various rough draft drills and production meterials with minimal error.

CAN THE LEARNER:

1. List proofreader's marks?
2. Practice typing rough draft drills?
3. Interpret rough draft material for grammatical correctness and sense?
4. Apply knowledge to rough draft production materials and type that material in mailable form?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: BASIC PRODUCTION SKILLS

MAIN HEADING: DUPLICATION TACHNIQUES

OBJECTIVE: The learner will demonstrate an ability to type materials for duplication by preparing a master copy and duplicating several copies.

CAN THE LEARNER:

1. Arrange and type their particular assignment (ex: memo, letter, one-page report)?
2. After teacher demonstration, type and correct errors on carbons, ditto and stencil masters?
3. Duplicate several copies?

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LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: PERSONAL/BUSINESS APPLICATION

MAIN HEADING: LETTERS, (BLOCK AND MODIFIED BLOCK STYLES) AND ENVELOPES

OBJECTIVE: The learner will demonstrate an ability to type letters on regular-size typing paper by applying the basic typing skills to personal/business correspondence.

CAN THE LEARNER:

1. Recognize the difference between block and modified block letter styles?
2. Recognize the difference between open and mixed punctuation in a particular letter style?
3. Identify in writing, orally, or by demonstrating the parts of a business letter (date, address, attention line, salutation, subject line, body, complimentary close, signature, reference initials, enclosure, post script) with 100 per cent accuracy?
4. Use the letter placement guide in setting up margins and dateline?
5. Set up and type both letter styles, centering them on the page, according to length of content and arranging the parts of the letters in acceptable format?
6. Apply placement of address of large and small envelopes?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: PERSONAL/BUSINESS APPLICATIONS

MAIN HEADING: LETTERS ON SPECIAL-SIZE STATIONERY

OBJECTIVE: The learner will demonstrate an ability to type letters on various apecial-size stationery by applying the basic typing skills to personal/business correspondence.

CAN THE LEARNER:

1. Set up and type various letter styles?
2. Apply letter-placement settings (horizontal and vertical) for special-size stationery and types accordingly?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: PERSONAL/BUSINESS APPLICATION MAIN HEADING: TWO-PAGE LETTERS

OBJECTIVE: The learner will demonstrate an ability to type two-page letters on regular or special-size stationery by applying the basic typing skills to person/business correspondence.

CAN THE LEARNER:

1. Type the different letter styles with open or mixed punctuation on regular or special-size stationery?

2. Type vertical and horizontal headings on the second page of a letter in correct format?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: PERSONAL/BUSINESS APPLICATIONS MAIN HEADING: REPORTS /MANUSCRIPTS

OBJECTIVE: The learner will demonstrate an ability to type reports/manuscripts in complete and correct form.

CAN THE LEARNER:

1. Set up and type outlines with correct indentation, capitalization, and spacing?
2. Set up and type formal or informal reports with correct spacing and margins, typing from rough draft or straight copy material?
3. Type title page in acceptable format?
4. Type table of contents with acceptable spacing and centering?
5. Type bibliography in proper format?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: PERSONAL/BUSINESS APPLICATIONS

MAIN HEADING: PERSONAL DATA SHEET (RESUME)/EMPLOYMENT APPLICATION FORMS

OBJECTIVE: The learner will demonstrate an ability to assemble and type information by organizing it in an effective and logical format of a resume or personal data sheet for employment application usage.

CAN THE LEARNER:

1. Assemble own personal information for the rough draft data sheet?
2. Proof reads and corrects the rough draft data sheet in final format?
3. Type a personal data sheet in final format?
4. Type an application form from information on data sheet?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TYPING 3 & 4
GRADE LEVEL: 10-12

UNIT: PERSONAL/BUSINESS APPLICATIONS

MAIN HEADING: TYPEWRITING OFFICE PRACTICE SETS

OBJECTIVE: The learner demonstrates an ability to follow instructions, use typing knowledge learned, self-reliance, judgment, and pride in the completion of office-type projects which meet business standards of performance.

CAN THE LEARNER:

1. Read and listen with comprehension, interpret, and follow written or oral instructions in order to expertly complete a typing project?
2. Solve typing problems by applying typing skill and previouly learned procedures?
3. Decide appropriate form and style; provide headings, supply routine information; proofread; and correct spelling, grammer, and punctuation? Complete letters, forms, and reports in a way which reflects credit on the typist and the company by meeting business standards of excellence?
4. Complete a reasonable amount of work in an allotted time with minimal or no waste of forms, paper, or materials?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SHORTHAND 1 & 2
GRADE LEVEL: 11 & 12

UNIT: FORKNER SHORTHAND THEORY

MAIN HEADING: DEVELOPING SKILL IN WRITING SHORTHAND

OBJECTIVE: The learner will demonstrate an ability to write the sounds of words by using the correct Forkner Shorthand theory for outlining each sound that is heard.

CAN THE LEARNER:

1. Relate the Forkner Shorthand theory for writing each sound?
2. Repeat the sounds of words and write only those sounds that are hear?
3. Memorize the abbreviated words and write them automatically with speed and accuracy?
4. Write long-hand letters and shorthand outlines avoiding all extra writing strokes?
5. Write shorthand notes from dictation, writing speedily and accurately (a goal of 80 words a minute for three minutes of dictation will be set for the end of the course)?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SHORTHAND 1 & 2
GRADE LEVEL: 11 & 12

UNIT: FORKNER SHORTHAND THEORY

MAIN HEADING: DEVELOPING SKILL IN READING SHORTHAND NOTES

OBJECTIVE: The learner will demonstrate an ability to read shorthand notes as rapidly and accurately as reading from print by reading from textbook and personal shorthand notes at an acceptable speaking rate.

CAN THE LEARNER:

1. Define the Forkner Shorthand theory for outlining each sound that is heard?
2. Memorize the abbreviated words and read them automatically with speed and accuracy?
3. Read all shorthand vocabulary, sentences, and business letters in the Forkner Shorthand text.
4. Interpret individual shorthand notes, using the context of each sentence to identify difficult words?

UNIT: TRANSCRIPTION

MAIN HEADING: TRANSCRIBING SHORTHAND NOTES

OBJECTIVE: The learner will demonstrate an ability to transcribe shorthand notes rapidly and accurately by typing from personal and textbook shorthand outlines.

CAN THE LEARNER:

1. Define the Forkner Shorthand Theory for writing each sound?
2. Identify dictionary and grammar rules to produce accurate transcriptions?
3. Interpret shorthand notes (textbook and personal) and transcribe them at the typewriter using correct spelling, punctuation, grammar, etc.?
4. Proof-read carefully and correct all errors?
5. Type with speed and accuracy from shorthand notes?

UNIT: TRANSCRIPTION

MAIN HEADING: TRANSCRIBING BUSINESS LETTERS

OBJECTIVE: The learner will demonstrate an ability to produce mailable business letters from shorthand dictation notes by typing letters using correct letter styles with accurate spelling, punctuation, and grammar.

CAN THE LEARNER:

1. List the various styles of business letters (Block style, Modified block style, Open punctuation, Mixed punctuation)?
2. Relate the rules for addressing and typing letter-size and legal-size envelopes?
3. Recognize typographical errors and make acceptable corrections in order to produce mailable copy?
4. Type business letters from shorthand notes in the various acceptable office styles, using accurate spelling, punctuation, and grammar?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BUSINESS LAB 1 & 2
GRADE LEVEL: 11 & 12

UNIT: TEN-KEY ADDING LISTING MACHINE

MAIN HEADING: DEVELOPING SKILL IN OPERATING A 10-KEY ADDING LISTING MACHINE BY TOUCH

OBJECTIVE: The learner will demonstrate an ability to operate a 10-key adding-listing machine by using the touch method to figure mathematic calculations.

CAN THE LEARNER:

1. Define the correct fingering technique for operating the 10-key adding-listing machine?
2. Relate the importance of operating the 10-key machine with speed and accuracy?
3. Name the advantages and disadvantages of the 10-key adding-listing machine?
4. Describe the steps that are followed in adding, subtracting, and multiplying whole numbers and decimals on the 10-key adding-listing machine?
5. Demonstrate the touch method of operating the 10-key adding-listing machine in figuring basic business computations--discounts, payroll earnings and deductions, taxes, percentages, etc.?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BUSINESS LAB 1 & 2
GRADE LEVEL: 11 & 12

UNIT: ELECTRONIC CALCULATORS

MAIN HEADING: DEVELOPING SKILL IN OPERATING THE ELECTRONIC CALCULATOR

OBJECTIVE: The learner will demonstrate an ability to use the electronic calculator by figuring the solutions to practical business problems (i.e. payroll earnings and deductions, quantity pricing, chain discounts, taxes, etc.).

CAN THE LEARNER:

1. Define the correct fingering technique for operating the calculator by touch?
2. Name the advantages and disadvantages of printing and display calculators?
3. Relate the importance of operating the calculator with speed and accuracy?
4. Describe the procedures to be followed in adding, subtracting, multiplying, and dividing whole numbers and decimals?
5. Identify the symbol and memory keys on the electronic calculator?
6. Demonstrate the use of the calculator in figuring the solutions to practical business problems; i.e.:

    a) Figure cash and chain discounts?
    b) Extend invoices with quantity pricing?
    c) Calculate sales taxes?
    d) Figure payroll earnings and deductions?
    e) Calculate merchandise mark-up based on (1) cost price, and (2) selling price?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BUSINESS LAB 1 & 2
GRADE LEVEL: 11 & 12

UNIT: TELEPHONE ETIQUETTE

MAIN HEADING: DEVELOPING SKILL IN TELEPHONE COMMUNICATION

OBJECTIVE: The learner will demonstrate an ability to communicate effectively over the telephone by placing and receiving various kinds of calls, i.e., sales calls, service calls, collection calls, complaint calls, etc.

CAN THE LEARNER:

1. Define the elements of a good telephone call?
2. Explain the differences between face-to-face communication and telephone communication?
3. Recognize the dynamics of telephone personality (i.e., enunciation, rate of speech, tone quality, volume, listening skills, etc.)?
4. Identify the differences between the various kinds of calls (i.e., sales calls, service calls, collection calls, complaint calls, etc)?
5. Relate how to use the telephone directory easily and efficiently?
6. Demonstrate the proper placement of a call?
7. Demonstrate the correct way to receive a call and take a complete and accurate message?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BUSINESS LAB 1 & 2
GRADE LEVEL: 11 & 12

UNIT: FILING IN THE BUSINESS OFFICE

MAIN HEADING: ALPHABETIC FILING OF INDIVIDUAL NAMES AND BUSINESS NAMES

OBJECTIVE: The learner will demonstrate an ability to file names alphabetically by using the rules that apply to individual and business-firm names.

CAN THE LEARNER:

1. List the rules for filing individual and business names alphabetically?
2. Define the steps to be followed in indexing individual and business firm names?
3. Identify the key indexing units in a sample list of individual and business firm names?
4. Use the filing rules to alphabetize a group of individual and business firm names?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: BUSINESS LAB 1 & 2
GRADE LEVEL: 11 & 12

UNIT: INDIVIDUAL PROJECTS

MAIN HEADING: WORKING ON PROJECTS RELATED TO EACH PARTICULAR STUDENT'S INDIVIDUAL INTERESTS

OBJECTIVE: The learner will demonstrate an increased level of skill or understanding in one or more areas of business and office education by completing office style practice sets and workbooks - i.e. Typeing Shorthand Transcription, Bookkeeping, Record-Keeping, Consumer Economics (Credit, Banking, Stocks and Bonds, Advertising, Payroll Deductions, etc.)

CAN THE LEARNER:

1. Define new terminology?
2. Define procedures to be followed in completing the particular job?
3. Recognize improved skills and techniques in practicing the particular job?
4. Complete one or more individual practice sets or work-books?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: START AN ACCOUNTING SYSTEM

OBJECTIVE: The student will demonstrate the ability to complete a balance sheet by preparing a balance sheet.

CAN THE LEARNER:

1. Relate the importance of the accounting system (what is is)?
2. Explain the meaning of assets, liabilities, and capital?
3. Define debits and credits?
4. Explain what debits and credits are?
5. Relate that the first steps in the accounting process is the beginning balance sheet?
6. Relate the fact that the balance sheet is based on the basic accounting equation Assets = liabilities and capital?
7. Explain the step by step procedure in setting up a balance sheet?
8. Prepare a balance sheet?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: OPENING ENTRY

OBJECTIVE: The student will demonstrate the ability to use accounting procedures by recording and posting the opening entry.

CAN THE LEARNER:

1. Describe that every entry has an equal debit entry and credit entry (may have one or more of each but the totals will be equal in a one complete entry)?
2. Explain that assets have a debit balance and liability and capital have a cradit balance?
3. Define what a journal is (why it is) - General Journal?
4. Explain what a journal is - General Journal?
5. Explain what individual accounts are (a ledger)?
6. Explain what posting is (why it is)?
7. Describe why entries are recorded in the journal than posted to individual accounts?
8. Describe the step by step procedures used in recording the opening entries and posting them?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: DEBIT AND CREDIT OF BUSINESS TRANSACTIONS THAT AFFECT BALANCE SHEET ACCOUNTS

OBJECTIVE: The student will demonstrate an understanding of transactions by describing what occurs in a typical transaction that affects changes in assets, liabilities, and capital.

CAN THE LEARNER:

1. Relate that any transaction changes the balance of two or more accounts in the ledger?
2. Relate that any account has both a debit and credit side?
3. Describe that the balance side of any account is always the increase side and the other side is the decrease side?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: DEBIT AND CREDIT OF INCOME AND EXPENSE TRANSACTIONS

OBJECTIVE: The student will demonstrate an understanding of income and expense accounts by explaining the effect of increases and decreases in the income and expense accounts on the capital of the business.

CAN THE LEARNER:

1. Define income and expense?
2. Discuss income and expense accounts?
3. Recognize that income increases capital and expenses decrease capital?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: JOURNALIZING BUSINESS TRANSACTIONS

OBJECTIVE: The student will be able to demonstrate the ability to record in the cash journal by completing all given transactions.

CAN THE LEARNER:

1. Define journals (why it is - cash journal)?
2. Explain the workings of a journal (cash journal)?
3. Record a transaction in the journal?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: POSTING OF JOURNALIZED TRANSACTIONS

OBJECTIVE: The student will demonstrate the ability to post to the ledger by posting the transactions that they have previously recorded in the cash journal.

CAN THE LEARNER:

1. List what columns make up a cash journal?
2. Relate what the columns are for?
3. Explain what the columns are for and what is recorded in each?
4. Explain why the transactions you recorded in the general columns are posted individually and why the transactions recroded in the special columns (this case each) are posted as a total amount - not individually?
5. Explain the step-by-step procedure used in posting from the cash journal to the ledger (separate accounts)?
6. Post transaction to the ledger?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: SIX - COLUMN WORK SHEET

OBJECTIVE: The student will demonstrate the ability to apply workshipp skills by interpreting the results of the completed worksheet.

CAN THE LEARNER:

1. Define what a work sheet is for?
2. Explain why we prepare a worksheet - analysis of success of business?
3. Describe what a worksheet is; what each column is for?
4. Explain step by step how to prepare a six-column worksheet?
5. Prepare a six-column worksheet?
6. Interpret a given worksheet?

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LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: INCOME SHEET AND BALANCE SHEET

OBJECTIVE: The student will demonstrate the ability to analyze the financial papers (income stateement and balance sheet) by comparing the results of each.

CAN THE LEARNER:

1. Define income statement and balance sheet?
2. Explain the "what" and "why" of an income statement and balance sheet?
3. Explain the step-by-step procedure in completing an income statement and balance sheet?
4. Complete an income statement and balance sheet?
5. Compare the results or figures of the income statement and balance sheet to see how the business is doing?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Beginning Accounting Cycle

MAIN HEADING: CLOSING THE LEDGER

OBJECTIVE: The student will deomonstrate the ability to close the ledger by completing the closure of a ledger.

CAN THE LEARNER:

1. **State the need for bringing the capital section up to date?**
2. Relate why the income and expense accounts are closed out?
3. Define the income and expense summary and why it is used?
4. Explain the step-by-step procedure of closing the income and expense accounts into the income and expense summary?
5. Explain how to rule and close all accounts?
6. Complete the closing of all accounts: a) asset, b) liability, c) capital, d) income-expense?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: JOURNALIZING TRANSACTIONS OF A MERCHANDISE BUSINESS

OBJECTIVE: The student will demonstrate an understand of journalizing a combination journal: a) purchase of merchandise for cash, b) purchase of merchandise on account, c) cash payment on account, d) sale of merchandise for cash, e) sale of merchandise on account, f) cash received on account, g) buying supplies on account, h) correcting entries by explaining the process for journalizing

CAN THE LEARNER:

1. **List all columns in a combination journal?**
2. Explain what each column is for?
3. Explain how to journalize all the possible transactions listed?
4. Explain each transaction in a step-by-step manner (the journalizing of each)?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: JOURNALIZING TRANSACTIONS OF A MERCHANDISING BUSINESS

OBJECTIVE: The student will demonstrate an understanding of drawing accounts and cash withdrawals by explaining how they are used by the proprietor.

CAN THE LEARNER:

1. Define drawing account?
2. Define cash withdrawals by the proprietor?
3. Explain drawing accounts and cash withdrawals by the proprietor?

LAKE [illegible]EVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: JOURNALIZING TRANSACTIONS OF A MERCHANDISING BUSINESS

OBJECTIVE: The student will demonstrate the correct way of forwarding from one journal page to the next to complete the process.

CAN THE LEARNER:

1. Repeat the correct way of forwarding?
2. Explain forwarding?
3. Complete forwarding in a journal?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: POSTING TO THE LEDGERS OF A MERCHANDISING BUSINESS

OBJECTIVE: The student will demonstrate the ability to post from the combination journal to the general ledger and the subsidiary ledgers by completing the process.

CAN THE LEARNER:

1. Define subsidiary ledgers?
2. Explain the "what is" and "why of" a subsidiary ledger?
3. Explain which columns are posted as totals and which are posted individually?
4. Explain which transactions or totals are posted to which ledgers?
5. Explain in a step-by-step manner how to post from a combination journal to the general ledger and subsidiary ledgers?
6. Complete posting?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: EIGHT-COLUMN WORKSHEET

OBJECTIVE: The student will demonstrate the ability to analyze an eight-column worksheet for profit or loss by solving the data for profit or loss.

CAN THE LEARNER:

1. Define an eight-column worksheet and what each column is for?
2. Explain the use of each column and what the worksheet shows?
3. Explain the step-by-step procedure in completing an eight-column worksheet?
4. Complete an eight-column worksheet.
5. Analyze it and decide if the business operated at a profit or a loss?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: FINANCIAL STATEMENTS OF A MERCHANDISING BUSINESS

OBJECTIVE: The student will demonstrate the ability to apply knowledge of financial statements by completing the financial statement of a merchandising business.

CAN THE LEARNER:

1. **Define financial statements?**
2. Explain each financial statement?
3. Explain step-by-step the procedure used in completing the financial statements of a merchandising business?
4. Complete a financial statement?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: ADJUSTING AND CLOSING ENTRIES

OBJECTIVE: The student will demonstrate the ability to apply knowledge of adjusting and closing entries by recording them.

CAN THE LEARNER:

1. Define adjusting entries and closing entires?
2. Explain what for, why, etc, of adjusting entries and closing entires?
3. Explain step-by-step how to record adjusting and closing entries?
4. Record adjusting and closing entries?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Combination Journal and Subsidiary Ledgers

MAIN HEADING: ADJUSTING AND CLOSING ENTRIES

OBJECTIVE: The student will demonstrate the ability to apply knowledge of adjusting and closing entries by posting them.

CAN THE LEARNER:

1. Explain the "what for" "why", etc., of posting adjusting and closing entries?
2. Explain step-by-step how to post adjusting and closing entires?
3. Post adjusting and closing entries?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Checking Account and Bank Reconciliation Statement

MAIN HEADING: CHECKING ACCOUNT

OBJECTIVE: THe student will demonstrate the ability to apply knowledge of checking by writing a check.

CAN THE LEARNER:

1. **Explain what a check is?**
2. Explain the step-by-step procedure in writing a check?
3. Write a check?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Checking Account and Bank Reconciliation Statement

MAIN HEADING: BANK RECONCILIATION STATEMENT

OBJECTIVE: The student will demonstrate the ability to apply knowledge of reconciliation of bank statements by completing the process.

CAN THE LEARNER:

1. **Define a bank reconciliation statement?**
2. Explain what a bank reconciliation statement is?
3. Describe the step-by-step procedure in filling out a bank reconciliation statement?
4. Reconcile a bank statement?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Payroll Systems

MAIN HEADING: PAYROLL RECORD

OBJECTIVE: The student will demonstrate the ability to apply knowledge of payroll by completing the common payroll forms - records - and time cards for an individual and the company as a whole.

CAN THE LEARNER:

1. Explain what Social Secruity Tax, Federal Withholding Tax, State and Federal Unemployment Taxes are?
2. Describe what a payroll register, earnings records, payroll, time cards, and exemptions are?
3. Explain how to make out the payroll records for an individual and the company as a whole?
4. Complete the common payroll forms - records - and time cards for an individual and the company as a whole?

LAKE S VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Payroll Systems

MAIN HEADING: PAYROLL ACCOUNTS TAXES AND RECEIPTS

OBJECTIVE: The student will deomonstrate the ability to apply knowledge of payroll by completing the entries, records, and reports concerned with making out payroll.

CAN THE LEARNER:

1. Describe the recording of the payroll in the combination journal?
2. Describe the recording of the employer's payroll taxes in the combination journal?
3. Describe the paying and recording of the withholding taxes and the payroll taxes?
4. Describe the use of the payroll tax reports?
5. Complete the entries, records, and reports concerned with making out the payroll?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Automated Data Processing Introduction

MAIN HEADING: DATA PROCESSING

OBJECTIVE: The student will demonstrate an understanding of computer flow charts by explaining the flow charts necessary to run computer programs.

CAN THE LEARNER:

1. Relate what data processing is?
2. Explain what data processing is?
3. Describe the phases of a data processing system?
4. Describe types of records and machines used in manual and mechanical accounting systems?
5. Describe the use of simple flow charts with aminimum of symbols that can be used in mechanical (and manual) accounting systems?
6. Explain the flow charts necessary to run computer programs?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Automated Date Processing
Introduction

MAIN HEADING: DATA PROCESSING SYSTEMS

OBJECTIVE: The student will demonstrate an understanding of computer programing by discussing the logical thinking process necessary to plan a computer program.

CAN THE LEARNER:

1. Explain the similarity between the manual accounting system and the automated data processing system used in accounting?

2. Discuss the use of the standard eighty-column punched card to record and store accounting data for use in an automated data processing system?

3. Describe a simple flow chart and demonstrate the ability to use the flow chart in an automated data processing system?

4. Discuss the logical thinking process necessary to plan a computer program?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Accounting Cycle with the Use of Special Journals

MAIN HEADING: SPECIAL JOURNALS

OBJECTIVE: The student will demonstrate the ability to apply knowledge of special journals by using the following special journals: a) purchases, b) cash payments, c) sales, d) cash receipts.

CAN THE LEARNER:

1. List the special journals?
2. Describe the reason for special journals over just one journal?
3. Describe the use of each special journal?
4. Describe the step-by-step recording of each transaction in each journal?
5. Describe the step-by-step posting of each transaction to the ledgers?
6. Use the folowing special journals: s) purchases, b) cash payments, c) sales, d) cash receipts?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: The Accounting Cycle with the Use of Special Journals

MAIN HEADING: SPECIAL JOURNALS

OBJECTIVE: The student will demonstrate the ability to apply knowledge of petty cash fund by using a petty cash fund.

CAN THE LEARNER:

1. Define a petty cash fund?
2. Describe the petty cash fund?
3. Demonstrate the use of a petty cash fund?

LAKE ST NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Sales Tax and Other Sales and Purchases Systems

MAIN HEADING: SALES TAX

OBJECTIVE: The student will demonstrate an understanding of sales tax by explaining how sales tax is collected and how it effects the accounting system.

CAN THE LEARNER:

1. Define sales tax?
2. Explain what sales tax is?
3. Explain how sales tax is collected?
4. Explain how sales tax effects the accounting system?
5. Explain how sales tax is collected and how it effects the accounting system?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Sales tax and other sales and purchases systems.

MAIN HEADING: OTHER SALES SYSTEMS

OBJECTIVE: The student will demonstrate the ability to apply knowledge of sales invoices by using sales invoices as a sales journal.

CAN THE LEARNER:

1. Define sales invoice?
2. Explain a sales invoice?
3. Use sales invoices as a sales journal?

Entry Skill - Knowledge of sales journal.

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Sales Tax and the other Sales and Purchases Systems

MAIN HEADING: OTHER PURCHASES SYSTEMS

OBJECTIVE: The student will demonstrate the ability to apply knowledge of purchase invoices by using purchase invoices as a purchases journal.

CAN THE LEARNER:

1. Define purchase invoice?
2. Explain a purchases inovice?
3. Demonstrate the ability to use purcahses inovices as a purchases journal?

Entry Level - student will have knowledge of purchases journal.

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Bad Debts in the Accounting System MAIN HEADING: BAD DEBTS AND ITS RELATION TO ACCOUNTS RECEIVABLE

OBJECTIVE: The student will demonstrate the ability to apply knowledge of bad debts by using the bad debts expense and allowance for bad debts.

CAN THE LEARNER:

1. Explain the bad debts expense account?
2. Explain the allowance for bad debts account?
3. Use the accounts bad debts expense and allowance for bad debts?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Depreciation and Fixed Assets

MAIN HEADING: DEPRECIATION

OBJECTIVE: The student will demonstrate the ability to apply knowledge of depreciation by using the straight-line method of depreciation.

CAN THE LEARNER:

1. **Explain what the straight-line method of depreciation is?**
2. Use the straight-line method of depreciation?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Depreciation and Fixed Assets

MAIN HEADING: FIXED ASSETS

OBJECTIVE: The student will demonstrate an understanding of assets by explaining the differences between fixed and current assets.

CAN THE LEARNER:

1. Define fixed assets?
2. Define current assets?
3. Explain fixed assets?
4. Explain current assets?
5. Explain the differences between fixed and current assets?

Entry level - Knowledge of term assets.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Depreciation and Fixed Assets

MAIN HEADING: FIXED ASSETS

OBJECTIVE: The student will demonstrate an understanding of liabilities by explaining the advantages to classifying current and long term liabilities separately on the balance sheet.

CAN THE LEARNER:

1. Explain current liabilities?
2. Explain long-term liabilities?
3. List the advantage of classifying liabilities separately on the balance sheet?
4. Explain the difference between current liabilities and long-term liabilities?
5. Explain the advantage to classifying these liabilities separately on the balance sheet?

Entry level - knowledge of term liabilities and balance sheet.

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Interest on Notes, Accrued Income, and Accrued Expenses.

MAIN HEADING: INTEREST

OBJECTIVE: The student will demonstrate the ability to compute interest by completing a set of interest problems.

CAN THE LEARNER:

1. Explain what interest is?
2. Explain how to compute interest?
3. Compute interest?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Interest on Notes, Accrued Income and Accrued Expenses

MAIN HEADING: INTEREST

OBJECTIVE: The student will demonstrate the ability to report interest income and expense on an income statement by completing an income statement.

CAN THE LEARNER:

1. Explain interest income?
2. Explain how to report interest income and expense on an income statement?
3. Report interest income and expense on an income statement?

Entry Level - Knowledge of terms: interest income and expense on an income statement.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Interest on Notes, Accrued Income and Accrued Expenses

MAIN HEADING: NOTES

OBJECTIVE: The student will demonstrate the ability to record transactions involving notes payable and notes receivable by completing given transactions.

CAN THE LEARNER:

1. Explain notes payable?
2. Explain notes receivable?
3. Explain the step-by-step procedure used in recording transactions involving notes payable and notes receivable?
4. Record transactions involving notes payable and notes receivable?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Interest on Notes, Accrued Income and Accrued Expenses

MAIN HEADING: ACCRUED INCOME AND EXPENSES

OBJECTIVE: The student will demonstrate the ability to record accrued income and expenses by completing a problem set.

CAN THE LEARNER:

1. Explain accrued income?
2. Explain accrued expenses?
3. Explain the step-by-step procedure used in recording accrued income and accrued expenses?
4. Record accrued income and expenses?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: ACCOUNTING
GRADE LEVEL: 11 & 12

UNIT: Business Arrangements

MAIN HEADING: PARTNERSHIPS AND CORPORATIONS

OBJECTIVE: The student will demonstrate an understanding of partnerships and corporations by explaining advantages and disadvantages of partnerships and corporations.

CAN THE LEARNER:

1. Define partnership?
2. Define corporation?
3. Explain a partnership?
4. Explain a corporation?
5. Explain the advantages and disadvantages of a partnership and a corporation?

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LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Attendance

MAIN HEADING:

OBJECTIVE: The student will demonstrate responsibility by maintaining an 85% attendance record.

CAN THE LEARNER:

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Food Handlers Permit

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to participate in a food service program by completing the necessary steps for a food handler's permit.

CAN THE LEARNER:

1. Read handbook?
2. Pass required test over handbook?
3. Complete (if under 18) a parent permission slip for a skin test?
4. Take skin test and have it read?
5. Complete steps for a food handler;s permit?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Job Performance

MAIN HEADING: JOB RULES

OBJECTIVE: The student will be able to demonstrate the ability to follow the cafeteria rules by practicing the rules when appropriate.

CAN THE LEARNER:

1. List cafeteria rules verbally or written?
2. Explain the cafeteria rules?
3. Follow the cafeteria rules?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Job Performance

MAIN HEADING: SERVING PORTIONS

OBJECTIVE: The student will demonstrate knowledge of serving portions of a Type A lunch by naming the portions for the lunch.

CAN THE LEARNER:

1. Name serving posrtion of a Type A lunch verbally or written?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Job Performance

MAIN HEADING: MILK COUNT

OBJECTIVE: The student will be able to demonstrate the ability to do the milk count by completing a milk count.

CAN THE LEARNER:

1. Memorize the steps in doing the milk count?
2. Explain the steps in doing the milk count?
3. Do the milk count?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Job Placement

MAIN HEADING: PERSONAL DATA SHEET

OBJECTIVE: The student will be able to prepare a personal data sheet by correctly completing all parts of the form.

CAN THE LEARNER:

1. List:
    a) personal date (height, weight, etc.)
    b) list activities and hobbies
    c) list education background
    d) list previous work experience
    e) name and give telephone number and addresses of three personal references?
2. Describe the step-by-step procedure in preparing a personal data sheet?
3. Prepare a personal data sheet?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Job Placement

MAIN HEADING: JOB APPLICATION

OBJECTIVE: The learner will demonstrate the ability to complete an application form properly by properly filling all sections.

CAN THE LEARNER:

1. Explain a job application form is?
2. Explain the step-by-step procedure in filling out a job application form?
3. Fill in an application form properly?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Job Placement

MAIN HEADING: INTERVIEW

OBJECTIVE: The learner will demonstrate an understanding of the interview process by explaining what is necessary to prepare for an interview.

CAN THE LEARNER:

1. List possible questions and answers that could be asked at an interview?
2. Explain what type of personal appearance is acceptable at an interview?
3. Explain what is necessary to prepare for an interview?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Job Placement

MAIN HEADING: INTERVIEW

OBJECTIVE: The learner will demonstrate an understanding of follow-up activities to an interview by explaining what to do as a follow-up to an interview.

CAN THE LEARNER:

1. List appropriate things to do after an interview?
2. Explain what to do as a follow-up to an interview?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Human Relations

MAIN HEADING: HUMAN RELATIONS

OBJECTIVE: The student will demonstrate the ability to give possible solutions to human relations problems as they relate to food service program by generating possible solutions to the problems.

CAN THE LEARNER:

1. Define what a human relations probelm is?
2. Explain what a human relations problem is and how it may have different solutions?
3. Discuss human relations problems?
4. Generate possible solutions to the problem?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Salesmanship

MAIN HEADING: SALES PROCESS

OBJECTIVE: The student will deomonstrate an understanding of selling methods by explaining four types of selling methods.

CAN THE LEARNER:

1. List at least five types of selling methods, i.e. door to door, telephone, prospect lists, newspapers, purchased lists, etc.
2. Explain four types of selling methods?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Salesmanship

MAIN HEADING: THE STEPS IN A SALE

OBJECTIVE: The student will demonstrate an understanding of making a sale by describing the steps in the making of a sale.

CAN THE LEARNER:

1. List the steps in the making of a sale:
   a) preapproach
   b) approach
   c) presentation
   d) pre closing
   e) objections?

2. Describe the steps in the making of a sale?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: SALES PROMOTION

MAIN HEADING: Advertising

OBJECTIVE: Teh student will demonstrate the ability to apply knowledge of advertising by creating an advertisement.

CAN THE LEARNER:

1. List the components of an advertisement?
2. List effects of a good advertisement?
3. Explain what copy strategy is?
4. Explain the components of an advertisement and effects of a good advertisement?
5. Create an advertisement?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Sales Promotion

MAIN HEADING: ADVERTISING

OBJECTIVE: The student will demonstrate an understanding of advertising by explaining the advantages and disadvantages of the various types of advertising media.

CAN THE LEARNER:

1. List the various advertising media?
2. Discuss the various advertising media?
3. Identify the advantages of each advertising media?
4. Identify the disadvantages of each advertising media?
5. Explain the advantages and disadvantages of the various types of advertising media?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Sales Promotion

MAIN HEADING: DISPLAY

OBJECTIVE: The student will demonstrate an understanding of displays by explaining the basic steps in building a display.

CAN THE LEARNER:

1. List the elements of design necessary in building a display?
2. Explain the basic elements of design necessary?
3. List the principles of design necessary in building a display?
4. Explain the basic principles of design necessary?
5. Explain the basic steps in building a display?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Making Change

MAIN HEADING: MAKING CHANGE WHEN REGISTER SHOWS AMOUNT OF PURCHASE

OBJECTIVE: The student will be able to demonstrate the ability to make change making the proper change in a given situation.

CAN THE LEARNER:

1. Describe the step-by-step process of making change?

2. Make change in a given situation:
   a) when register shows amount of purchase
   b) when register shows amount of change?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Store Security

MAIN HEADING: TYPES OF RIP OFFS

OBJECTIVE: The student will demonstrate an understanding of criminal techniques by explaining the techniques used by short change artists, counterfeiters, shoplifters, and robbers, and methods of prevention.

CAN THE LEARNER:

1. List techniques used by:
    a) short change artists
    b) counterfeiters
    c) shoplifters
    d) robbers?
2. Explain techniques use by above mentioned people?
3. List types of prevention?
4. Explain types of prevention?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Store Security

MAIN HEADING: CASHING CHECKS

OBJECTIVE: The student will demonstrate an understanding of check cashing by explaining the proper methods in cashing a check.

CAN THE LEARNER:

1. Relate the step-by-step procedure in cashing a check and making sure it is valid?
2. Explain the proper methods in cashing a check?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Mathematics of Distribution

MAIN HEADING: MATHEMATICAL SKILL

OBJECTIVE: The student will demonstrate the ability to perform basic mathematical skills by scoring 70% or higher on a test.

CAN THE LEARNER:

1. Add?
2. Subtract?
3. Divide?
4. Multiple?
5. Use per cents?
6. Use discounts?
7. Use returns and allowances?
8. Perform basic mathematical skills?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Business Ethics

MAIN HEADING: ETHICS IN GOODS SOLD

OBJECTIVE: The student will demonstrate an understanding of ethics of selling by explaining the sellers obligation to sell goods of good quality and not misrepresent what is sold.

CAN THE LEARNER:

1. Define ethics?
2. Explain ethics?
3. Define sellers obligation and misrepresentation?
4. Explain the sellers obligation to sell goods of good quality and not misrepresent what is sold?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: (_LL

UNIT: Business Ethics

MAIN HEADING: ETHICS IN BUSINESS RELATIONSHIPS - EMPLOYER - EMPLOYEE

OBJECTIVE: The student will demonstrate an understanding of employer-employee relations by explaining what responsibilities the employer has ethically to the employee and vice-versa.

CAN THE LEARNER:

1. List several unethical things an employer could do to an employee?
2. List several unethical things an employee could do to an employer?
3. Explain the unethical possibilities in both directions?
4. Explain why certain actions are unethical?
5. Explain what responsibilities the employer has ethically to the employee and vice-versa?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Business Ethics

MAIN HEADING: ETHICS IN RELATION TO COMPETITION

OBJECTIVE: The student will demonstrate an understanding of ethics in competition by explaining proper ethics in relation to competition.

CAN THE LEARNER:

1. List unethical practices in relation to competition?
2. Explain unethical practices in relation to competition?
3. Explain proper ethics in relation to competition?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: FOOD SERVICE
GRADE LEVEL: 9-11

UNIT: Careers in Food Service

MAIN HEADING: CAREERS

OBJECTIVE: The student will demonstrate an understanding of career opportunities in food service by explaining the career outlook for ten or more careers.

CAN THE LEARNER:

1. List ten or more careers in food service?
2. Explain the occupational outlook for these ten or more food service careers?
3. Explain the career outlook for ten or more careers in food service?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LI
GRADE LEVEL: 7

UNIT: Foods and Nutrition

MAIN HEADING: BASIC 4 FOOD GROUPS

OBJECTIVE: The student will demonstrate an understanding of basic nutrition by identifying the basic 4 food groups and the functions of the five basic nutrients.

CAN THE LEARNER:

1. Memorize the basic four food groups and the number of servings needed daily?
2. Identify foods which fit into each group?
3. Discuss the five basic nutrients found in the basic four food groups?
4. Identify some functions of five basic nutrients in the basic four food groups?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 7

UNIT: Foods and Nutrition

MAIN HEADING: KITCHEN MANAGEMENT

OBJECTIVE: The student will demonstrate kitchen management by practicing principles of kitchen safety and cleanliness as they apply to kitchen management.

CAN THE LEARNER:

1. List proper use of kitchen equipment?
2. Discuss proper use of kitchen equipment?
3. Recognize how kitchen accidents can be prevented?
4. Select the proper storage method for food safety?
5. Practice cleaning dishes, equipment and work surfaces for food safety?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF[illegible]
GRADE LEVEL: 7

UNIT: Foods and Nutrition

MAIN HEADING: TABLE SETTING AND MANNERS

OBJECTIVE: The student will demonstrate table setting and manners by practicing factors involved in tablesetting and table manners.

CAN THE LEARNER:

1. Relate the need for table setting and table manners?
2. Identify the need for table setting and table manners?
3. Recognize a correctly set table?
4. Recognize appropriate table manners?
5. Practice setting a table and using appropriate table manners?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF[illegible]
GRADE LEVEL: 7

UNIT: Foods and Nutrition

MAIN HEADING: FOOD PREPARATION

OBJECTIVE: The student will demonstrate food preparation by preparing foods provided for in the basic four food groups.

CAN THE LEARNER:

1. Practice reading a recipe?
2. Define basic cooking terms?
3. Practice correct measuring techniques?
4. Prepare foods from the basic four food groups?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 7

UNIT: Clothing

MAIN HEADING:

OBJECTIVE: The student will demonstrate use of sewing equipment and supplies by demonstrating proper use of each piece of equipment.

CAN THE LEARNER:

1. Explain the function of a seam ripper?
2. Use a seam ripper?
3. Explain the function of a sewing gauge?
4. Use a sewing gauge?
5. Use a tape measure?
6. Explain function of hand needles?
7. Use hand needles?
8. Explain function of straight pins?
9. Use straight pins?
10. Explain function of scissors?
11. Use scissors?
12. Use proper thread selection?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF
GRADE LEVEL: 7

UNIT: Textiles

MAIN HEADING:

OBJECTIVE: The student will demonstrate ability to apply knowledge of fabric by selecting appropriate fabric for a simple sewing project.

CAN THE LEARNER:

1. List types of fabrics?
2. Describe types of fabrics?
3. Explain use of type of fabric?
4. Select fabric for a sewing project?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 7

UNIT: Clothing

MAIN HEADING:

OBJECTIVE: The student will demonstrate skill in care and use of sewing machines by threading, winding the bobbin, and replacing the needle.

CAN THE LEARNER:

1. Identify parts and functions of the machines?
2. Explain how to thread a machine?
3. Thread a machine?
4. Explain how to wind the bobbin?
5. Explain how to replace a needle?
6. Replace the needle?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 7

UNIT: Clothing

MAIN HEADING:

OBJECTIVE: The student will demonstrate skill in pressing by practicing pressing techniques.

CAN THE LEARNER:

1. Explain the difference between pressing and ironing?
2. Press rather than iron?
3. Press with the grain?
4. Press in direction of stitching?
5. Press seams open?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF[illegible]
GRADE LEVEL: 7

UNIT: Clothing

MAIN HEADING:

OBJECTIVE: The student will demonstrate ability to use fabric grain by putting fabric on grain.

CAN THE LEARNER:

1. Identify length-wise grain?
2. Identify cross-wise grain?
3. Identify bias?
4. Identify selvage?
5. Identify raw?
6. Identify cut?
7. Identify torn?
8. Identify fabric design on or off grain?
9. Practice putting fabric on grain?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 7

UNIT: Clothing

MAIN HEADING:

OBJECTIVE: The student will demonstrate sewing skills by practicing basic sewing skills (straight stitch; back stitch; stay stitching, pivoting; basting).

CAN THE LEARNER:

1. Stitch a straight line?
2. Back stitch at the end of a line of stitching?
3. Stay stitching?
4. Stitch two pieces of fabric together to form a seam?
5. Pivot at a corner?
6. Machine, hand and pin baste?
7. Process fabric?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LI
GRADE LEVEL: 7

UNIT: Child Care

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of child care by recognizing how to share with children through classroom related activities.

CAN THE LEARNER:

1. List general needs during child care?
2. Explain general needs during child care?
3. Prepare snacks?
4. Interact with children on the child's level?
5. Plan and participate in a game?
6. Recognize individual differences?
7. Recognize how to share with children through classroom related activities?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 7

UNIT: Money Management

MAIN HEADING:

OBJECTIVE: The student will demonstrate an ability to synthesize the skill of money management by designong a personal spending plan.

CAN THE LEARNER:

1. Identify a need?
2. Identify a want?
3. Discuss how needs and wants relate to money management?
4. Illustrate a general money management plan?
5. Compare their general money management plan to their own wants and needs?
6. Design a personal spending plan?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF[illegible]
GRADE LEVEL: 7

UNIT: Family Relations

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of family sharing by discussing needs and wants of family members.

CAN THE LEARNER:

1. List the needs of families?
2. Recognize individual differences?
3. Discuss needs and wants of family members?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 7

UNIT: Grooming

MAIN HEADING:

OBJECTIVE: The student will be able to apply principles of cleanliness by applying principles of cleanliness for their own personal use.

CAN THE LEARNER:

1. Name principles of cleanliness?
2. Explain principles of cleanliness?
3. Discuss adequate care of hair, skin and nails?
4. Apply principles of cleanliness for their own personal use.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 9-10

UNIT: Foods and Nutrition

MAIN HEADING: GRAINS

OBJECTIVE: The student will demonstrate the ability to apply the principles and techniques of grain and grain products in cooking and baking by preparing grain products.

CAN THE LEARNER:

1. Discuss the history of grains?
2. Recognize grains as meat extenders?
3. Interpret the contribution of grains to daily dietary needs?
4. Discuss the principles and methods of grain cookery?
5. Practice the principles and methods of grain cookery?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF[illegible]
GRADE LEVEL: 9-10

UNIT: Foods and Nutrition

MAIN HEADING: PROTEIN

OBJECTIVE: The student will demonstrate the ability to apply the principles and techniques of protein cookery in cooking and baking by preparing protein foods.

CAN THE LEARNER:

1. Discuss the history of the main proteins?
2. Interpret the contribution of proteins to daily dietary needs?
3. Recognize the factors influencing the selection of protein foods?
4. Discuss the principles and methods of protein cookery?
5. Practice the principles and methods of protein cookery?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LI
GRADE LEVEL: 9-10

UNIT: Foods and Nutrition

MAIN HEADING: VEGETABLES AND FRUITS

OBJECTIVE: The student will demonstrate the ability to apply the principles and techniques of vegetable and fruit cookery in cooking and baking by preparing vegetables and fruit foods.

CAN THE LEARNER:

1. Identify classifications of fruits and vegetables?
2. Interpret the contribution of fruits and vegetables to daily dietary needs?
3. Recognize the factors influencing the selection of fruits and vegetables?
4. Discuss the principles and methods of fruit and vegetable cookery?
5. Practice the principles and methods of protein cooking?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LI[illegible]
GRADE LEVEL: 9-10

UNIT: Foods and Nutrition

MAIN HEADING: SPICES

OBJECTIVE: The student will be able to apply the principles and techniques of spice cookery in cooking and baking by adding spices to foods.

CAN THE LEARNER:

1. Discuss the history of spices?
2. Interpret the contribution of spices in enhansing flavors of foods?
3. Discuss the principles and methods of spice cookery?
4. Practice the principles and methods of spice cookery?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 9-10

UNIT: Foods and Nutrition

MAIN HEADING: REGIONAL FOODS

OBJECTIVE: The student will be able to apply the nature and origins of regional foods.

CAN THE LEARNER:

1. Identify the food regions of the United States?
2. Analyze the food customs of a particular region?
3. Select and present a food item typical of that region?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF[illegible]
GRADE LEVEL: 9-10

UNIT: Foods and Nutrition

MAIN HEADING: FOOD PRESERVATION

OBJECTIVE: The student will apply the principles and techniques of home food preservations by preserving foods for classroom use.

CAN THE LEARNER:

1. List reasons for food preservation?
2. Identify reasons for food preservation?
3. Identify preinciples of equipment safety?
4. Apply principles of equipment safety?
5. Identify causes of food poisening?
6. Explain methods of food preservation?
7. Practice preservation methods?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LI[illegible]
GRADE LEVEL: 9-10

UNIT: Consumer Education

MAIN HEADING: MONEY MANAGEMENT

OBJECTIVE: The student will demonstrate skill in money management by applying the problem solving sequence to consumer decisions.

CAN THE LEARNER:

1. Identify how consumer decisions effect the economic system?
2. Distinguish between values and goals, needs and wants?
3. Recognize the effects of values and goals, needs and wants on the use of resources?
4. Identify the types of credit available to the consumer?
5. List advantages and disadvantages of using credit?
6. List advertising mediums?
7. Identify the types of advertising?
8. Evaluate wording used in advertising?
9. Apply the problem solving sequence in making a consumer decision based on values and goals, needs and wants?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LI[illegible]
GRADE LEVEL: 9-10

UNIT: Grooming

MAIN HEADING: CLEANLINESS

OBJECTIVE: The student will be able to apply principles of cleanliness as they apply to specific personal hygiene by analyzing their own grooming patterns.

CAN THE LEARNER:

1. List basic grooming ideas for cleanliness?
2. Explain basic grooming ideas for cleanliness?
3. Identify own personal grooming habits?
4. Recognize personal grooming aids?
5. Identify specific personal grooming concerns?
6. Interpret specific personal hygiene principles to a given situation?
7. Analyze their own grooming patterns?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIF
GRADE LEVEL: 9-10

UNIT: Textiles

MAIN HEADING: MAN - MADE FIBERS

OBJECTIVE: The student will demonstrate proper use of the man-made fibers as they relate to every day living by making appropriate fabric choices.

CAN THE LEARNER:

1. Identify man-made fibers by generic name?
2. Identify characteristics of generic families?
3. Distinguish how blends can alter properties of fabrics?
4. Distinguish how finishes can alter properties of fabrics?
5. Distinguish care needed for a garment by the characteristics of the fiber?
6. Identify factors affecting stain removal?
7. Select man-made fibers for end use?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LIFE
GRADE LEVEL: 9-10

UNIT: Child Development

MAIN HEADING: RESPONSIBILITY

OBJECTIVE: The student will demonstrate responsible child behavior control by observation and participation in child centered activities.

CAN THE LEARNER:

1. Identify needs and wants of small children as they relate to the child's physical, psychological and social needs?
2. Diagram potential safety hazzards?
3. Choose clothing which will facilitate the physical and social development of the young child?
4. Select foods which will contribute to the health and well being of young children?
5. Discuss how the four basic types of play help meet the developmental needs of the young child?
6. List toys and activities to fit the four basic types of play?
7. Recognize factors relating to child abuse and the effects on the child's development?
8. Recognize that early childhood psychological development is based on a working knowledge of discipline and punishment?
9. Choose appropriate responsible measures for effective behavior control?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY L[illegible]
GRADE LEVEL: 9-10

UNIT: Housing and Home Furnishings

MAIN HEADING: ROOM AND ACCESSORIES

OBJECTIVE: The student will demonstrate that social, psychological, and physical well being can be achieved through personal room organization by reorganizing their own personal space.

CAN THE LEARNER:

1. Describe and measure personal space?
2. Diagram personal space?
3. Identify physical needs?
4. Recognize social and psychological needs?
5. Analyze existing space as related to physical, social and psychological needs?
6. Organize or reorganize possible reorganization of personal space?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOME AND FAMILY LI[illegible]
GRADE LEVEL: 9-10

UNIT: Clothing

MAIN HEADING: CONSTRUCTION

OBJECTIVE: The student will demonstrate the ability to construct clothing by constructing two garments using a commercial pattern using intermediate sewing skills.

CAN THE LEARNER:

1. Select a commercial pattern which will include prescribed sewing skills for garment one.
2. Apply the necessary construction techniques in garment one.
   a) Bodice backs and fronts
   b) Collars
   c) Pockets
   d) Facings and interfacings
   e) Set-in sleeves
   f) Button holes
   g) hems
3. Select a commercial pattern which will include presecribed sewing skills for garmet two?
4. Apply the necessary construction techniques in garment one of a)waistband, b) zipper?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SPECIALTY FOODS
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student will demonstrate understanding of the effect of culture on food by emphasis placed on foods of various cultures.

CAN THE LEARNER:

1. Name personal ethnic backgound?
2. Identify foods from a variety of ethnic backgrounds?
3. Identify factors influencing the world food supply?
4. Recognize factors contributing to the emphasis placed on food in various cultures?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SPECIALTY FOODS
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student will demonstrate the ability to select, use, and care for small electrical appliances used in specialty food preparation by preparing a speciality food item using a small electrical appliance.

CAN THE LEARNER:

1. Identify small electrical appliances used in specialty food preparation?
2. Discuss selection, use and care of various small electrical appliances?
3. Demonstrate a specialty food item using a small electrical appliance?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SPECIALTY FOODS
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student will demonstrate the ability to apply the principles and techniques of dairy cookery using specialty foods by preparing a specialty food recipe for the class.

CAN THE LEARNER:

1. List foods that are considered dairy foods?
2. Select specialty food recipes using dairy foods?
3. Illustrate the principles of preparing specialty dairy foods by preparing a specialty food recipe for the class?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SPECIALTY FOODS
GRADE LEVEL:

UNIT:

MAIN HEADING: Foods and Nutrition

OBJECTIVE: The student will demonstrate the ability to apply the principles and techniques of carbohydrate cookery using specialty foods by preparing specialty carbohydrate food recipe for the class.

CAN THE LEARNER:

1. List foods that are considered carbohydrate foods?
2. Select specialty food recipes using carbohydrate foods?
3. Illustrate the principles of preparing specialty carbohydrate foods by preparing a specialty food recipe for the class?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SPECIALTY FOODS
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student will demonstrate the ability to apply the principles and techniques of fruits and vegetable cookery using specialty foods by preparing a specialty fruit and vegetable recipe for the class.

CAN THE LEARNER:

1. List unusual fruits and vegetables used in specialty food preparation?
2. Select specialty food recipes using both common and unusual fruits and vegetables?
3. Illustrate the principles of preparing specialty fruits and vegetable foods by preparing a specialty food recipe for the class?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: SPECIALTY FOODS
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student sill demonstrate the ability to apply the principles and techniques of protein cookery using specialty foods by preparing a specialty protein recipe for the class.

CAN THE LEARNER:

1. List the foods that are considered protein foods?
2. Select specialty food recipes using protein foods?
3. Illustrate the principles of preparing specialty protein foods by preparing a specialty food recipe for the class?

SUBJECT: SPECIALTY FOODS
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student will illustrate the nature and origins of our food customs as they relate to ethnic, regional, religious, and historical aspects by preparing a meal representative of a particular culture.

CAN THE LEARNER:

1. Select a culture which has influenced our foods and eating patterns?
2. Identify the internal factors which have influenced the food patterns of the culture?
3. Present researched material to the class?
4. Demonstrate a cultural food sample to the class?
5. Organize, plan, and prepare a meal representative of the culture?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: PREPARATION FOR THE FUTURE
GRADE LEVEL:

UNIT:

MAIN HEADING: INFANT AND CHILD CARE

OBJECTIVE: The student will demonstrate the ability to analyze community resources relating to child welfare by analyzing the current problems and trends in infant and child care in the local community.

CAN THE LEARNER:

1. Recognize the positive and negative role mass communication may have on child development?
2. Discuss medical advances as it relates to birth control, pregnancy, nutrition, childhood diseases and immunizations?
3. Recognize opportunities for the handicapped?
4. Identify changes in the roles of men and women?
5. Discuss how health practices during adolescence may affect one's ability to have healthy children?
6. Identify increased need for parent substitutes?
7. Identify criteria for selecting day care facilities and or substitute parents?
8. Discuss trends towards early childhood education?
9. Analyze community resources relating to child welfare, health, and education?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: PREPARATION FOR THE FUTURE
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student will demonstrate an understanding of diet by identifying the special dietary needs of specific groups to maintain health.

CAN THE LEARNER:

1. List special dietary groups?
2. Compare the special dietary needs of the various groups?
3. Discuss ways of meeting the basic four food groups when planning special diets?
4. Identify the costs involved with special diets?
5. Identify ways of maintaining health through special diets?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: PREPARATION FOR THE FUTURE
GRADE LEVEL:

UNIT:

MAIN HEADING: CONSUMER EDUCATION

OBJECTIVE: The student will demonstrate an understanding of factors influencing money management and consumer decision goals for spending and saving by establishing goals for spending and saving.

CAN THE LEARNER:

1. Discuss marketing factors that influence consumer decisions?
2. Identify sources of consumer information?
3. Compare factors affecting consumer's use of time, energy, and money on food buying practices?
4. Practice establishing goals for spending and savings?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: PREPARATION FOR THE FUTURE
GRADE LEVEL:

UNIT:

MAIN HEADING: FOODS AND NUTRITION

OBJECTIVE: The student will demonstrate an understanding of the special considerations that must be given to meal planning and preparation when preparing food for two by planning and preparing a meal for two.

CAN THE LEARNER:

1. Identify stages in the life cycle which demand cooking for two?
2. Use the basic four to plan nutritious meals for two?
3. Discuss the special considerations involved in cooking for two?
4. Plan and prepare foods for two?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: PREPARATION FOR THE [illegible]TURE
GRADE LEVEL:

UNIT:

MAIN HEADING: HOUSING

OBJECTIVE: The student will demonstrate an understanding that various life styles influence the choice of housing by discussing the effects of life styles on available housing choices.

CAN THE LEARNER:

1. Discuss the functions of housing?
2. Discuss factors influencing the location of housing?
3. Distinguish between the landlords' and renters' responsibilities?
4. Discuss the effects of various life styles on available housing choices?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: HOUSING AND HOME FURNISHINGS
GRADE LEVEL: 12

UNIT:

MAIN HEADING: FIRST HOME OR APT ON YOUR OWN

OBJECTIVE: The student will demonstrate the ability to apply life-style and budget needs to housing by selecting a first home or apartment.

CAN THE LEARNER:

1. Identify renter and landlord responsibilities?
2. Use advertisements to select an appropriate house or apartment to share with someone?
3. Evaluate choice based on guidelines for house and apartment selection?
4. Estimate cost of living in house or apartment?
5. Evaluate the impact of the housing expenditure on the budget?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: TAILORING
GRADE LEVEL: 11-12

UNIT: Clothing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to tailor by tailoring a minimum of six projects using the unit method of clothing construction.

CAN THE LEARNER:

1. Select and construct a child's garment to learn or review intermediate sewing skills?

2. While completing a minimum of six projects using the unit method of clothing construction, demonstrate the ability to do the following:

    a) linings?
    b) interfacings?
    c) underlining?
    d) tailored buttonholes?
    e) fitting?
    f) alterations of a garment?
    g) napped fabrics?
    h) special fabrics?
    i) stretch and knit fabrics?
    j) hand details?
    k) hand-picked zipper?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OWN
GRADE LEVEL: 12

UNIT: Clothing

MAIN HEADING: LAUNDRY

OBJECTIVE: The student will demonstrate laundry skills by applying information on a variety of laundry methods, products and equipment.

CAN THE LEARNER:

1. Restate the six essential steps in laundrying?
2. Practice the six essential steps in laundrying?
3. Choose and practice the selection of water temperatures?
4. Select appropriate cleaning aids for specific personal and home care needs?
5. Discuss features available to consumers on laundry appliances?
6. Use laundry products and appliances?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OWN
GRADE LEVEL: 12th

UNIT: Clothing

MAIN HEADING:

OBJECTIVE: The student will be able to demonstrate the ability to use the sewing machine when living on their own by completing a simple project.

CAN THE LEARNER:

1. Identify the parts of a sewing machine?
2. Describe the operation of the machine?
3. Complete a simple project?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OWN
GRADE LEVEL: 12

UNIT:

MAIN HEADING: FAMILY RELATIONS

OBJECTIVE: The student will demonstrate the ability to interpret the various aspects of marriage and alternate life styles as they relate to themselves by writing their views regarding their life in the future.

CAN THE LEARNER:

1. Identify the problems and decisions of various life styles?
2. Discuss the maturity qualities for various life styles?
3. Discuss the realities of various life styles?
4. List legal requirements of marriage?
5. List legal complications of non marriage?
6. Discuss the consequences of the ending of a relationship?
7. Interpret marriage and alternate life styles and as they apply to their future?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OWN
GRADE LEVEL: 12

UNIT: Family Relations and Money Management

MAIN HEADING: MONEY MANAGEMENT

OBJECTIVE: The student will demonstrate money management by setting up and practice working within a budget for future needs.

CAN THE LEARNER:

1. Define budget and paycheck terminology?
2. Estimate future hourly income?
3. Translate hourly income to gross monthly income?
4. Practice converting gross income to net income?
5. Prepare a budget of future needs based on net income?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OWN
GRADE LEVEL: 12

UNIT:

MAIN HEADING: FOOD PRESERVATION

OBJECTIVE: The student will be able to demonstrate the ability to preserve foods by selecting one method of preservation and preserve a food item.

CAN THE LEARNER:

1. List methods of food preservation?
2. Select one method of food preservation and preserve a food item in that manner?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OWN
GRADE LEVEL: 12

UNIT:

MAIN HEADING: BREAKFAST MEAL PATTERN

OBJECTIVE: The student will demonstrate application of a nutritional breakfast by planning, preparing, and serving a nutritious breakfast using the basic four food groups.

CAN THE LEARNER:

1. Plan sample breakfast patterns using the basic four food groups?
2. Illustrate a high, medium and low cost breakfast pattern?
3. List cost of breakfast food items at the grocery store?
4. Plan, prepare, and serve high, medium and low cost breakfast patterns using the basic four food groups?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OWN
GRADE LEVEL: 12

UNIT:

MAIN HEADING: LUNCH MEAL PATTERN

OBJECTIVE: The student will demonstrate selected food items to be used in a lunch meal pattern by preparing a luncheon meal pattern using those items.

CAN THE LEARNER:

1. Choose from a printed list a luncheon food item?
2. Research background information on the food item?
3. Compare various methods of preparing the food?
4. Practice the various methods of preparing the food?
5. Demonstrate at least one method of preparing the food?
6. Prepare a luncheon meal pattern using the food item?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: LIVING ON YOUR OW[illegible]
GRADE LEVEL: 12

UNIT: Personal and Family Food Management

MAIN HEADING: DINNER MEAL PATTERN

OBJECTIVE: The student will demonstrate dinner meal pattern by planning, preparing, and serving a nutritious dinner using protein cookery methods.

CAN THE LEARNER:

1. Identify the six main meat groups (beef, pork, fish, etc.)?
2. Distinguish between tender and less tender cuts of meat?
3. Recognize the appropriate cooking method to use with various cuts of meats?
4. Prepare a dinner pattern using at least one of the protein cookery methods?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to identify common woods used in class (see list).*

CAN THE LEARNER:

1. List common woods?
2. List the characteristics that differentiate woods?
3. Explain difference between plywood and solid lumber and particle board?
4. Identify given woods?

* LIST OF COMMON WOODS

1. Alder
2. Mahogany
3. Pine
4. Fir - Hemlock, Hem-fir
5. Fir plywood
6. Mahogany plywood
7. Particle board
8. Hard board

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use dado, mitre and rabbet joints by assembling projects using same.

CAN THE LEARNER:

1. List common wood joints?
2. Explain use of dado, mitre, rabbet joints?
3. Use dado, mitre, rabbet joints on projects?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to bend wood by the laminating method by making a bent laminated project.

CAN THE LEARNER:

1. **Define term laminated bending?**
2. Describe process of lam. bending?
3. Make a project involving lam. bending?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to varnish wood by applying varnish to a project using brush technique.

CAN THE LEARNER:

1. Define the term varnish?
2. Explain how to apply a varnish finish?
3. Apply a varnish with a brush?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to stain wood by applying stain to a project.

CAN THE LEARNER:

1. Define the term staining?
2. Explain how to apply stain?
3. Apply stain to project?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate increased level of skill or understanding of objectives stated in the 7th grade wood unit by making projects of greater difficulty.

CAN THE LEARNER:

1. Define new terminology?
2. Recognize increased level of difficulty (ie. more pieces, accurate cutting, complex shaping)?
3. Order two or more processes in proper sequence?
4. Made a project involving use of increased skill level?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Plastics

MAIN HEADING:

OBJECTIVE: The student will demonstrate increased level of skill or understanding of objectives stated in 7th grade plastics unit by making projects of greater difficulty.

CAN THE LEARNER:

1. Define new terminology?
2. Recognize increased level of difficulty (i.e. more pieces, accurate cutting, complex shaping)?
3. Order two or more processes in proper sequence?
4. Make a project involving use of increased skill level?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Metal

MAIN HEADING:

OBJECTIVE: The student will demonstrate increased level of skill or understanding of objectives stated in the 7th grade metal unit by making projects of greater difficulty.

CAN THE LEARNER:

1. Define new terminology?
2. Recognize increased level of difficulty (i.e. more pieces, accurate cutting, complex shaping)?
3. Order two or more processes in proper sequence?
4. Make a project involving use of increased skill level?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Metals

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use metal working tools (see list)* by using those tools correctly and safely.

CAN THE LEARNER:

1. Name metal working tools?
2. List operations performed by each tool?
3. Define the following operations (see list)?
4. List safety rules for metals tools?
5. Discuss safety rules for metals tools?
6. Identify essential parts of metals tools?
7. Explain how to operate each tool?
8. Use each tool correctly and safely?

* METAL WORKING TOOLS

Hammers, files, screwdrivers, clamps, tin snips (etc.) bar folder, pan breaks, bender, roll (slip forming), belt disc sander, buffer, drill press, hack saw, squares, awl, soldering iron, spot welder, tap and die.

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Metals

MAIN HEADING:

OBJECTIVE: The student will demonstrate the understanding of the use of various metals by explaining their applications in a given project.

CAN THE LEARNER:

1. Name the various metals?
2. List the properties of metals?
3. Explain the properties of metals?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Metals

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to fabricate from various metals by fabricating products from various metals.

CAN THE LEARNER:

1. List methods of fabricating metals?
2. Explain how to perform fabricating methods?
3. Fabricate metal products using various metals?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: Metal

MAIN HEADING:

OBJECTIVE: Given the tap and die set, the student will demonstrate the ability to fabricate using taps and dies, and brazing by fabricating a project using same.

CAN THE LEARNER:

1. Define tapping and dieing?
2. Define brazing?
3. Explain process of tapping and dieing?
4. Explain process of brazing?
5. Fabricate a project by brazing?
6. Fabricate a project by tapping and dieing?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 8

UNIT: General Safety

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to follow safety procedures by using safety procedures in the general shop (see list).

CAN THE LEARNER:

1. List general safety rules of the shop?
2. Discuss general safety rules?
3. Recognize and locate safety areas?
4. Follow safety procedures by using safety procedures in the general shop?

* LIST OF SAFETY PROCEDURES

Eye protection
In a case of emergency
Behavior
Fammables
Clean-up
Dress
Materials handling

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LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7th

UNIT: Woods

MAIN HEADING:

OBJECTIVE: The students will demonstrate knowledge of the parts of a board by labeling the end, edge and face.

CAN THE LEARNER:

1. List the parts of a board?
2. Label a drawing of a board?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Woods

MAIN HEADING:

OBJECTIVE: The student will demonstrate the use of dimensions by applying it to a project.

CAN THE LEARNER:

1. Define terms T x W x L?
2. Identify T, W, L, of a board?
3. Apply T x W x L by selecting a board of predetermined dimensions (TWL)?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Woods

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of the parts of a board by identifying the parts of any board.

CAN THE LEARNER:

1. Name the parts of a board?
2. Identify the parts of a board?

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LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Woods

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use grain direction in any board by making proper cuts in the grain direction.

CAN THE LEARNER:

1. Name the grain directions?
2. Identify the grain directions?
3. Make cuts with the grain and against the grain?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to operate shop tools (see list) by using tools correctly and safely.

CAN THE LEARNER:

1. Name shop tools?
2. List operations performed by each tool?
3. Define the following operations (see list)?
4. List safety rules for each machine?
5. Discuss safety rules for each machine?
6. Identify the essential parts of each machine?
7. Explain how to operate each tool?
8. Use tool correctly and safely?

SHOP TOOLS LIST

Band saw, uniplane, belt/disc sander, lathe, power miter box, router, router table, drill press, electric drill, saber saw, portable belt sander, orbital sander, scroll saw, hammer, handsaw, ratchet brace, chisel, hand planes, files, squares, clamps, and misc.

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Woods

MAIN HEADING:

OBJECTIVE: The student will demonstrate knowledge of types of finish that can be applied to wood by listing three finishes.

CAN THE LEARNER:

1. Explain steps for preparing a board for finishing?
2. List three finishes?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Wood

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use a danish oil finish by applying a danish oil finish to a project.

CAN THE LEARNER:

1. Define danish oil finish?
2. Relate how to apply danish oil?
3. Apply a danish oil finish?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Woods

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to assemble (see list)* materials by assembling project(s).

CAN THE LEARNER:

1. List methods of assembling (glue, mechanical fasteners, joinery)?
2. Explain the application of each method?
3. Explain use of the following glues (white, plastic resin, contact, epoxy)?
4. Explain use of mechanical fasteners (nails, screws, etc.)?
5. List common wood joints?
6. Explain use of wood joints?
7. Explain use of clamps?
8. Assemble materials.

* Wood projects will be assembled primarly with butt joints (edge and face).

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Electricity

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to wire a lamp, and replace an electrical outlet and switch by performing these tasks.

CAN THE LEARNER:

1. List safety rules?
2. List tools used in electrical work?
3. Explain use of tools?
4. Explain procedure for connecting wire?
5. Wire a lamp circuit?
6. Replace a switch and outlet?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Plastic

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understainding of the use of plastic as a material by explaining its use in various applications.

CAN THE LEARNER:

1. List types of plastic?
2. Identify types of plastic?
3. Explain properties of plastic?
4. List properties of plastic?
5. List methods of working with plastic?
6. Explain application of plastics as material?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Plastics

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use tools correctly and safely by using tools correctly and safely.

CAN THE LEARNER:

1. Name plastics working tools? (see list)*
2. List plastics working operations?
3. Explain plastics working operations?
4. List safety rules for plastics tools?
5. Discuss safety rules for plastics tools?
6. Identify essential parts of plastics tools?
7. Explain operation of plastics tools?
8. Use tools correctly and safely?

*LIST OF PLASTIC TOOLS

1. Band saw
2. Belt/disc sander
3. Oven
4. Buffer
5. Strip heater
6. Drill press
7. Electric hand drill
8. Power miter box
9. Files

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Plastics

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to join plastic material by joining plastic materials.

CAN THE LEARNER:

1. Name the methods of joing plastic?
2. Explain the solvent method of joing plastic?
3. Explain how to join plastic to other materials?
4. Join plastic materials?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Plastic

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to lay up a FRP* product by laying up a product of FRP.

CAN THE LEARNER:

1. List materials used in FRP?
2. Explain procedure for FRP lay up?
3. Lay up a product using FRP?

* Fiber reinforced plastic

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Metals

MAIN HEADING: METALS AS A MATERIAL

OBJECTIVE: The student will demonstrate understanding of the use of various metals by explaining their applications in a given project.

CAN THE LEARNER:

1. Name the various metals?
2. List the properties of metals?
3. Explain the properties of metals?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Metals

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to fabricate from various metals by fabricating products from various metals.

CAN THE LEARNER:

1. List methods of fabricating metals?
2. Explain how to perform fabricating methods?
3. Fabricate metal products using various metals?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Metal

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to finish metal products by performing various metal finishing operations.

CAN THE LEARNER:

1. List methods of finishing metals?
2. Explain how to perform various finish methods?
3. Perform various metal finish operations?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: Metals

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use metal working tools (see list)* by using those tools correctly and safely.

CAN THE LEARNER:

1. Name metal working tools?
2. List operations performed by each tool?
3. Define the following operations (see list)*?
4. List safety rules for metals tools?
5. Discuss safety rules for metals tools?
6. Identify essential parts for metals tools?
7. Explain how to operate each tool?
8. Use each tool correctly and safely?

* METAL WORKING TOOLS

Hammers, files, screwdrivers, clamps, tin snips etc., snips (see list), bar folder, pan breaks, bender, roll (slip forming), belt disc sander, buffer, drill press, hack saw, squares, awl, soldering iron, spot welder, tap and die.

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP
GRADE LEVEL: 7

UNIT: General Safety

MAIN HEADING: SAFETY

OBJECTIVE: The student will demonstrate the ability to follow safety procedures by using safety procedures in the general shop. (see list)*

CAN THE LEARNER:

1. General safety rules of the shop?
2. Discuss general safety rules?
3. Recognize and locate safety areas?
4. Follow safety procedures by using safety procedures in the general shop?

* LIST OF SAFETY PROCEDURES

Eye protection
In a case of emergency
Behavior
Flammables
Clean-up
Dress
Materials handling

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: Finishing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to finish wood by applying French Polish.

CAN THE LEARNER:

1. List components of French Polish?
2. Explain how applied?
3. Apply French Polish?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: Finishing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use a spray gun for finishing by applying a finish with a spray gun.

CAN THE LEARNER:

1. List types of finish?
2. List types of finish that can be sprayed?
3. Name essential parts of spray equipment?
4. Identify the essential parts of spray equipment?
5. Explain preparation of finish for spraying?
6. Explain operation of spray equipment?
7. Use spray equipment to apply a finish?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: JOINERY

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use miter, lap, dowel, and dovetail joints by using them on projects.

CAN THE LEARNER:

1. List wood joints?
2. Describe wood joints?
3. Identify wood joints?
4. Explain use of above joints on projects?
5. Use above joints on projects?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT:

MAIN HEADING: FASTENERS

OBJECTIVE: The student will demonstrate the ability to use fasteners by using four different fasteners in various projects.

CAN THE LEARNER:

1. **List the different fastners (see list)* ?**
2. Identify the different fasteners?
3. Use one different fasteners in various projects?

* LIST OF FASTENERS

screws
nails
staples
log bolts
screw eyes
corrugated
hanger bolts
washers
stove bolts
brads
wire nails

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: Lathe

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to cut and scrape on a lathe by using the faceplate and spindle methods.

CAN THE LEARNER:

1. List the method of turning?
2. Describe faceplate and spindle procedures?
3. Use the faceplate and spindle procedures?
4. Describe the scraping and cutting methods?
5. Apply the scraping and cutting methods with the faceplate and spindle?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: Lumber

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of characteristics and uses of solid lumber by explaining the uses of various kinds of woods.

CAN THE LEARNER:

1. Name two categories of lumber?
2. Name two categories of solid lumber?
3. Explain difference between soft wood and hard wood?
4. List the characteristics of wood (hardness, strength, weight, color, grain, rigidity, machinability)?
5. Explain the characterists of wood (hardness, strength, weight, color, grain, rigidity, machinability)?
6. Explain the uses of various kinds of woods?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: Lumber

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of the characteristics and uses of plywood by explaining when to use plywood.

CAN THE LEARNER:

1. Name the two categories of lumber (solid lumber and plywood)?
2. List the kinds of plywood?
3. Explain the differences in plywood?
4. Explain the difference between solid lumber and plywood?
5. Explain the advantages and disadvantages of plywood?
6. Explain when to use plywood on projects?

LAKE ST ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: Lumber

MAIN HEADING:

OBJECTIVE: The student will demonstrate understanding of lumber grading system by explaining the grading of lumber.

CAN THE LEARNER:

1. List the grades of lumber?
2. Cite examples of lumber grades?
3. Explain the meaning of each grade?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 3-4
GRADE LEVEL:

UNIT: Bending

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use the laminating method of making bent wood forms by using the method on a project.

CAN THE LEARNER:

1. Name two methods of bending wood?
2. Describe two methods of bending wood?
3. List the materials and equipment needed for bent laminating?
4. Explain the procedure for bent laminating?
5. Make a bent laminated wood form?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Tool - Maintenance

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to maintain shop tools and equipment by sharpening, lubricating and replacement of parts and completing inventory control.

CAN THE LEARNER:

1. List maintenance operations: 1)sharpening, 2)lubrication, 3) part replacement, 4) inventry control?
2. Explain the listed maintenance operations?
3. Maintain shop tools and equipment?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Machine woodworking

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to perform specialty operations by making specialty cuts on projects.

CAN THE LEARNER:

1. List standard specialty cuts?*
   * Cabriole, taperine, cove, panel raising, etc.?
2. List equipment needed?
3. Explain how operation is performed
4. Perform operation

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Musical Instruments

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to construct a project by sonstructing a musical instrument.

CAN THE LEARNER:

1. List parts of instrument?
2. List joints used?
3. List operations used?
4. Explain steps two and three above?
5. List critical parts and processes?
6. Explain critical parts and processes?
7. Construct instrument?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Design

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use parameters of design by applying parameters to designing a project.

CAN THE LEARNER:

1. List the parameters of good design?
2. Explain each parameter?
3. Give examples of each parameter?
4. Make a design incorporating parameters of design?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT:

MAIN HEADING: JIG AND FIXTURES - SPECIALS

OBJECTIVE: The student will demonstrate the ability to construct jigs or fixtures for special project by operating the jigs or fixtures they have made.

CAN THE LEARNER:

1. List situations where jigs and fixtures may be used?
2. Explain the function of the jigs or fixtures?
3. Make the jig or fixture they need?
4. Operate the fixture or jigs?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Bending

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to bend wood by bending wood using steam.

CAN THE LEARNER:

1. List methods of bending?
2. List materials and equipment needed for steam bending?
3. Describe method of steam bending?
4. List woods used for steam bending?
5. Explain uses of steam bending?
6. Explain process of steam bending?
7. Use steam bending on a project?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT:

MAIN HEADING: CHAIR CONSTRUCTION

OBJECTIVE: The student will demonstrate the ability in furniture construction by making a chair.

CAN THE LEARNER:

1. List tools and materials used for making a chair?
2. List parts of a chair?
3. List joints used?
4. Explain where joints are used?
5. List unique processes of chair?
   a) scoop out seat
   b) angle leg
6. Explain the process for constructing a chair?
7. Eonstruct a chair?

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Laminates

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use formica by applying plastic laminates to a project.

CAN THE LEARNER:

1. List tools and materials used for plastic laminates?
   a) contact cement
   b) router bits
   c) router
2. Describe contact cement?
3. Describe how to use contact cement?
4. Describe the process of putting on plastic laminates?
5. Apply plastic laminates to a project?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Cabinet Construction

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use the two basic types of cabinet construction by building one of each.

CAN THE LEARNER:

1. Name two types of cabinets?
2. Describe two types of cabinets?
3. List joints used in each type?
4. Explain which joint to use in given situation?
5. Make cabinets of the two types?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Cabinet Construction

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability in cabinet making by constructing a drawer.

CAN THE LEARNER:

1. List parts of a drawer?
2. List types of drawers?
   a) flush
   b) rabbetted
   c) lipped
3. List joints used in drawers?
4. Explain where to use various joints on the drawer?
5. List the steps of drawer construction in order?
6. Explain the steps of drawer construction in order?
7. Construct a drawer?

LAKE ST NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 5-6
GRADE LEVEL:

UNIT: Cabinet Construction

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use cabinet hardware by applying them to a cabinet. (see list)*

CAN THE LEARNER:

1. List tools and materials needed?
2. Describe the function of hardware?
3. Describe the processes of attaching hardwares?
4. Apply cabinet hardware to a cabinet?

* LIST OF CABINET HARDWARE

HInges
Latches
Drawer guide
Handles
Pull knobs
Locks

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL: 9

UNIT: Sketching

MAIN HEADING: FREE HAND

OBJECTIVE: The student will demonstrate the ability to draw free hand lines by drawing free hand lines.

CAN THE LEARNER:

1. Relate how to draw straight, curved and diagonal lines free hand?
2. Explain how to draw straight, curved and diagonal lines free hand?
3. Draw lines free hand?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL: 9

UNIT: Sketching

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to sketch objects pictorially in oblique and isometric views by sketching shapes.

CAN THE LEARNER:

1. Name types of pictorial views?
2. Describe types of pictorial views?
3. Explain how to draw a box in each style (rectangle)?
4. Explain how to alter the rectangle to other shapes?
5. Sketch shapes in isometric oblique?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL:

UNIT: Sketching

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use correct lines and line weights and pencils by using them on sketches.

CAN THE LEARNER:

1. List the drafting lines
   a) hidden
   b) visible
   c) center
   d) dimension
   e) extention
   f) cutting plane lines
   g) construction line
2. Explain the differences in drafting lines?
3. List the line weights?
4. Explain the difference in line weights?
5. Name the correct pencils to use?
6. Explain the difference in pencils?
7. Draw correct lines, line weights and pencils?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING
GRADE LEVEL:

UNIT: Sketching

MAIN HEADING: ORTHOGRAPHICS

OBJECTIVE: The student will demonstrate the ability to sketch an orthographic drawing by sketching an object orthographically.

CAN THE LEARNER:

1. List the parts of an orthographic drawing?
2. Explain the part of an orthographic drawing?
3. Explain how to make an orthographic drawing?
4. Sketch orthographic drawings?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1-2
GRADE LEVEL:

UNIT: Scale

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use an architect scale by using a scale to measure.

CAN THE LEARNER:

1. List the main parts of the scale ?
   a) one half
   b) one fourth

2. Explain the parts of a scale?

3. Use an architect scale to measure lines?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL: 9

UNIT: Instrument Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to construct lines* using instruments by drafting with instruments.

CAN THE LEARNER:

1. List drafting instruments?
2. Identify drafting instruments?
3. Explain use of instruments?
4. Explain how to construct lines* with instruments?
5. Construct lines* with insturments?

* Straight vertical, horizontal, diagonal, curved.

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL: 9-12

UNIT: Instrument Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to make an orthographic drawing, lettered and dimensioned, using instruments, by making an orthographic drawing.

CAN THE LEARNER:

1. Relate how to get borders, title block, and center the drawing?
2. Explain how to set borders, title block, and center the drawing?
3. Set border, title block and center the drawing?
4. Use instruments to make construction lines?
5. Use instruments and scale to mark line locations?
6. Use instruments to draw object lines and apply dimensions?
7. Letter the drawing?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL:

UNIT: Instrument Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to make an isometric drawing by making an isometric drawing using instruments.

CAN THE LEARNER:

1. Relate how to center an isometric drawing?
2. Explain how to center an isometric drawing?
3. Relate how to construct circles and curves in isometric view?
4. Explain how to construct circles and curves in isometric view?
5. Make an isometric drawing using instruments?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL:

UNIT:

MAIN HEADING: LETTERING

OBJECTIVE: The student will demonstrate the ability to letter by lettering a drawing correctly.

CAN THE LEARNER:

1. Identify correct and incorrect lettering?
2. Describe strokes for each letter?
3. State the rule for spacing of letters?
4. Describe the spacing of a given sequence of letters?
5. Letter using correct shape, proportions, strokes and spacing?

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LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 1 & 2
GRADE LEVEL:

UNIT: DIMENSIONS

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to place dimensions on a drawing by dimensioning a drawing.

CAN THE LEARNER:

1. Relate two acceptable dimensioning formats (all one direction, bottom, and right side)?
2. Name correct location of dimensions for straight lines?
3. Name correct method for dimensioning curves and circles?
4. Explain how dimensioning reflects the manufacturing process for construction of the object?
5. Correctly place dimensions on a drawing?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT:

MAIN HEADING: SKETCHING REVIEW

OBJECTIVE: The student will demonstrate the ability to sketch free hand by sketching free hand pictorially and orthographically.

CAN THE LEARNER:

1. Free hand sketch straight, diagonal, and curved lines?
2. Sketch an object obliquely and isometrically (pictorial)?
3. Use the basic line types in a sketch?
4. Sketch an orthographic drawing of an object?

Note - See objectives drafting 1 & 2 sketching unit.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL: 10-12

UNIT:

MAIN HEADING: SCALE REVIEW

OBJECTIVE: The student will demonstrate the ability to use an architects scale by using an architects scale to make scale drawings.

CAN THE LEARNER:

1. Name the parts of the scale?
2. Describe the parts of the scale?
3. Explain how to use the scale to reduce or enlarge drawings?
4. Use the scale to make scale drawings?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT: Dimensioning

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to place dimensions on a drawing by dimensioning a drawing.

CAN THE LEARNER:

1. Relate two acceptable dimensioning formats, (all one direction, bottom and right side)?
2. Name correct location of dimensions for straight lines?
3. Name correct method for dimensioning curves and circles?
4. Explain how dimensioning reflects the manufacturing process for construction of the object?
5. Correctly place dimensions on a drawing?

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LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT: Instrument Drawing

MAIN HEADING: ILLUSTRATING

OBJECTIVE: The student will demonstrate the ability to make an isometric drawing by making an isometric drawing using instruments.

CAN THE LEARNER:

1. Relate how to center an isometric drawing?
2. Explain how to center an isometric drawing?
3. Relate how to construct circles and curves in isometric view?
4. Explain how to construct circles and curves in isometric view?
5. Make an isometric drawing using instruments?

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL: 9-12

UNIT: Instrument Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to make an orthographic drawing, lettered and dimensioned, using instruments by making an orthographic drawing.

CAN THE LEARNER:

1. Relate how to set borders, title block and center the drawing?
2. Explain how to set borders, title block and center the drawing?
3. Set border, title block and center the drawing?
4. Use instruments to make construction lines?
5. Use instruments and scale to mark line locations?
6. Use instruments to draw object lines and apply dimensions?
7. Letter the drawing?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL: 9

UNIT: Instrument Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to construct lines* using instruments by drafting with instruments.

CAN THE LEARNER:

1. List drafting instruments?
2. Identify drafting instruments?
3. Explain use of instruments?
4. Explain how to construct lines* with instruments?
5. Construct lines* with instruments?

* Straight vertical, horizontal, diagonal, curved.

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT:

MAIN HEADING: LETTERING

OBJECTIVE: The student will demonstrate the ability to letter by lettering a drawing correctly.

CAN THE LEARNER:

1. Identify correct and incorrect lettering?
2. Describe strokes for each letter?
3. State the rule for spacing of letters?
4. Describe the spacing for a given sequence of letters?
5. Letter using correct shape, proportions, strokes, and spacing?

LAKE S[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL: 10-12

UNIT: Orthographic Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to construct auxiliary views by making a drawing requiring auxiliary views.

CAN THE LEARNER:

1. Define auxiliary views?
2. Describe auxiliary views?
3. Describe how to construct auxiliary views?
4. Construct auxiliary views on an orthographic drawing?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT: Orthographic Projections

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to draft a development by drafting a development, using instruments.

CAN THE LEARNER:

1. Defing a development?
2. Explain the use of a development?
3. Explain how to draft a development?
4. Draft a development?

UNIT: Orthographic Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to draft section views with instruments by drafting section views.

CAN THE LEARNER:

1. Define a section view?
2. Explain the use of a section view?
3. Explain how to construct a section view?
4. Draft a section view on an orthographic drawing?

720

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LAKE [illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT: Pictorial Drawing (Illustrating) MAIN HEADING:

OBJECTIVE: The student will demonstrate teh ability to make pictorial dimetric, and trimetric drawings by drafting dimetric and trimetric drawings using instruments.

CAN THE LEARNER:

1. Define polymetric drawing?
2. Explain polymetric drawing?
3. Explain differences between isometric and polymetric drawing?
4. Draft a dimetric, and a trimetric pictorial drawing?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT: Pictorial Drawing (Illustrating) MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to draft an exploded pictorial drawing by drafting an exploded pictorial drawing.

CAN THE LEARNER:

1. Define an exploded drawing?
2. Explain the purpose and use of an exploded drawing?
3. Explain the centering of an exploded drawing?
4. Draft an exploded drawing?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL:

UNIT: Pictorial Drawing (Illustrating)

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to section a pictorial drawing by sectioning a pictorial drawing.

CAN THE LEARNER:

1. Define a section view?
2. Explain use of a section view?
3. Explain the construction of a section view?
4. Draft a pictorial drawing with a section view?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 3 & 4
GRADE LEVEL: 10-12

UNIT: Pictorial Drawing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use the various shading techniques by apllying the different shading techniques to pictorial drawings.

CAN THE LEARNER:

1. Name the shading methods?
2. Explain how to perform the shading methods?
3. Explain the purpose of shading?
4. Apply shading to pictorial drawings?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL:

UNIT:

MAIN HEADING: PLOT PLAN

OBJECTIVE: The student will demonstrate the ability to draw a plot plan by drawing a plot plan.

CAN THE LEARNER:

1. Use common drafting equipment?
2. Define the terms:
   a) contour lines
   b) lot lines
   c) center lines
   d) compass orientation
   e) set back
   f) bearing
   g) legal description?
3. List all required features of plot plan?
4. Explain all required features of plot plan?
5. Explain use of terms in item #2?
6. Draw a plot plan?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL: 11-12

UNIT:

MAIN HEADING: FOOTING AND FOUNDATION

OBJECTIVE: The student will demonstrate the ability to draw a footing and foundation plan by drawing footing and foundation plan.

CAN THE LEARNER:

1. Define the terms:
   a) footing
   b) foundation
   c) reinforcing
   d) frost line
   e) slab
   f) drainage
   g) water proofing pier
   h) crawl space
   i) vapor barrier?
2. Explain the application of above terms to foundation planning?
3. List sources for minimum standards for wall thickness, footing, pier spacing, slab thickness, crawl space?
4. Draw a foundation plan incorporating above factors?

LAKE STEVENS SCHOOL DISTRICT NO. 4 SUBJECT: DRAFTING 5 & 6
Lake Stevens, Washington 98258 GRADE LEVEL: 11-12

UNIT: MAIN HEADING: FLOOR PLAN

OBJECTIVE: The student will demonstrate the ability to draw a floor plan by drawing a floor plan.

CAN THE LEARNER:

1. Define terms:
    - a) circulation
    - b) orientation
    - c) flexibility
    - d) open concept
    - e) privacy
    - f) storage
    - g) furniture arrangement
    - h) 8 foot module
    - i) work triangle?
2. Explain the above terms?
3. List source of sizes for:
    - a) doorways
    - b) window area
    - c) height
    - d) hallways
    - e) storage
    - f) stairs
    - g) cabinets
    - h) furnishings
    - i) clearances
    - j) wall thickness?
4. Explain importance of above factors?
5. Explain methods of dimensioning floor plans?
6. Draw a floor plan applying above factors?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL: 11-12

UNIT:

MAIN HEADING: FLOOR FRAMING PLAN

OBJECTIVE: The student will demonstrate the ability to draw a floor framing plan by drawing a floor framing plan.

CAN THE LEARNER:

1. Define terms:
    a) sill
    b) header
    c) joist
    d) girder
    e) beam
    f) cross bridging
    g) cantilever
    h) trimmer joist?
2. Explain application of above terms to floor framing?
3. List sources of minimum sizes of lumber for floor framing applications?
4. Draw a floor framing plan?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL:

UNIT:

MAIN HEADING: ELECTRICAL PLANS

OBJECTIVE: The student will demonstrate the ability to draw a wiring plan by drawing a wiring plan.

CAN THE LEARNER:

1. Define terms:
   a) convenience outlet
   b) special purpose outlet
   c) single pole switch
   d) three way switch
   e) split wiring?
2. Explain application of above terms to wiring plan?
3. List all electrical items requiring pre installed wiring and show symbols?
4. List source of electrical symbols and wiring requirements?
5. Draw an electrical plan using above factors?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL:

UNIT:

MAIN HEADING: ELEVATIONS

OBJECTIVE: The student will demonstrate the ability to draw elevations by drawing elevations.

CAN THE LEARNER:

1. Explain an elevation?
2. List the elevations for a given home?
3. List the details shown in elevations?
4. List the types of exterior finishing?
5. List the styles of roofs and the types of roofing materials?
6. Explain how to locate and size exterior openings?
7. Draw an elevation incorporating above factors?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL:

UNIT:

MAIN HEADING: PERSPECTIVE VIEWS

OBJECTIVE: The student will demonstrate the ability to draw a perspective view by drawing a perspective view.

CAN THE LEARNER:

1. List and explain three perspective types?
2. Define the terms:
   a) station point
   b) ground plane
   c) ground line
   d) picture plane
   e) horizon line
   f) vanishing point?
3. Describe the process of making a two and three point perspective drawing?
4. Make a perspective drawing using two or three point method?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL:

UNIT:

MAIN HEADING: BUILDING CONSTRUCTION

OBJECTIVE: The student will demonstrate an understanding of basic wood fram constructure by making architectural drawings that employ basic framing.

CAN THE LEARNER:

1. Define the terms:
   - a) sole plate
   - b) stud
   - c) corner post
   - d) header
   - e) cripple
   - f) trimmer
   - g) cap
   - h) rafter
   - i) hip
   - j) valley
   - k) sheathing
   - l) bracing
   - m) wall board
   - n) bearing wall?

2. Describe the framing of an exterior wall, a partition wall, a six inch pipe wall?

3. Apply the above knowledge to draw floor plans and wall sections?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: DRAFTING 5 & 6
GRADE LEVEL:

UNIT:

MAIN HEADING: SECTION VIEWS

OBJECTIVE: The students will demonstrate the ability to draw a section view by drawing a section view.

CAN THE LEARNER:

1. Describe wall framing, sheathing, insulating, interior finishing?
2. Describe same for roof, floor, and ceiling?
3. Explain a cutting plane?
4. Explain how to obtain location and dimension?
5. Draw a section view of features of a home?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL: 9-12

UNIT: General Safety

MAIN HEADING: SAFETY

OBJECTIVE: The student will demonstrate the ability to follow safety procedures by using safety procedures in the shop (see list).

CAN THE LEARNER:

1. List general safety rules of the shop:
2. Discuss general safety rules:
3. Recognize and locate safety areas?
4. Follow safety procedures by using safety procedures in the shop?

* LIST OF SAFETY PROCEDURES

Eye protection
In case of emergency
Behavior
Flammables
Clean-up
Dress
Materials handling

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT: Prefinishing

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to prepare a board for finishing by sanding a board.

CAN THE LEARNER:

1. List the types of abrasives?
2. Explain the differences in the types of abrasives?
3. List the grades (grit size) of abrasives?
4. Identify given samples of abrasives?
5. Identify grain direction in lumber?
6. Explain the sequence of grit size in sanding?
7. Explain the "bench marks" of changing grit size?
8. Explain what is meant by the term "raising the grain"?
9. Sand a board?

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT: Glueing and Clamping

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use glues correctly by glueing wood projects.

CAN THE LEARNER:

1. List types of glue?
2. Explain the differences between the types of glues?
3. Explain the uses of the different glues?
4. Use the correct glue to glue projects?.

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT: Glueing and Clamping

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use clamps correctly by using clamps on a project.

CAN THE LEARNER:

1. List woodworking clamps?
2. Describe woodworking clamps?
3. List the possible clamping situations?
4. Explain which clamp to use in given situations?
5. Explain how to apply clamps?
6. Use clamps to glue projects?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT: Planning

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to sketch wood working projects in three dimensional and orthographic views by making sketches of projects.

CAN THE LEARNER:

1. Sketch straight, diagonal, curved lines?
2. Define oblique and isometric views?
3. Explain how to draw oblique and isometric rectangle?
4. Sketch an oblique or isometric rectangle?
5. Sketch a shop project in three dimensions?
6. Sketch an altered oblique or isometric rectangle?
7. List the dimensions required on a complete shop sketch?
8. Identify the dimensions required on a given sketch?
9. Place the required dimensions on a given sketch?
10. Define an orthographic drawing?
11. Explain how a three dimensional drawing is converted to orthographic?
12. Translate a three dimensional sketch to orthographic, with dimensions?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT: Planning

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to complete a given project plan by completing a bill of materials for the project.

CAN THE LEARNER:

1. List the parts of a bill of materials?
2. Identify the information on a drawing required in a bill of material?
3. Locate the information on a drawing into the correct place on a bill of material?
4. Define board feet?
5. Explain the computation of board feet?
6. Explain how to use a beard foot chart?
7. Figure the board feet in a given project part?
8. Explain how to find the cost of a project part?
9. Figure the cost of a project part?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT: Planning

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to develop steps of procedure for a given project by writing the steps procedure.

CAN THE LEARNER:

1. Define a steps of procedure?
2. List the steps of squaring a board in order?
3. Explain the steps of squaring a board?
4. Explain how squaring a board applies to all woodworking projects?
5. List the possible variations of squaring a board?
6. Explain where to insert the variations into the steps of squaring a board for a given project?
7. Write the steps of procedure for a given project?

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT:

MAIN HEADING: FINISHING FILLERS

OBJECTIVE: The student will demonstrate an understanding of wood fillers by explaining use of wood fillers in the finishing process.

CAN THE LEARNER:

1. Define wood fillers?
2. Explain wood fillers in the finishing process?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL: 9-12

UNIT:

MAIN HEADING:

OBJECTIVE: The student will demonstrate the ability to use a penetrating finish and varnish finish by applying these finishes to their projects.

CAN THE LEARNER:

1. Define penetrating finish?
2. Varnish finish?
3. Explain the difference between the two finishes?
4. Explain how to put on a penetrating finish?
5. Explain how to put on a varnish finish?
6. Apply a penetrating and a varnish finish to their projects?

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LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL: 9-12

UNIT:

MAIN HEADING: FINISHING (STAINS)

OBJECTIVE: The student will demonstrate the ability to use stains by applying a stain to a project.

CAN THE LEARNER:

1. Define a stain?
2. Explain the difference between stains and other finishes?
3. Apply a stain to a project?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT:

MAIN HEADING: WOODWORKING TERMS

OBJECTIVE: The student will demonstrate an understanding of woodworking terms by explaining them (see list)*.

CAN THE LEARNER:

1. Define woodworking terms?

2. Explain the woodworking terms?

* LIST OF WOODWORKING TERMS

kerf
thickness
width
length
random & width & length (RW&L)
grain direction
board feet
S2S
S43
RGH
FAS
Kiln (kn)
air dried (AD)
green
grain raising
round head
oval head

pilot hole
anchor hole
countersink
counterbore
nail set
penny
weight
gross
box
case
finish
common
box
duplex
hanger bolts
flat head

LAKE STE[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT: Woodworking

MAIN HEADING: MACHINE OPERATIONS

OBJECTIVE: The student will demonstrate the ability to operate woodworking machinery (see list)* by operating same.

CAN THE LEARNER:

1. List machines?
2. Explain what operations each machine can perform?
3. List common operations? (see list)*
4. Explain each operation? (see list)*
5. List safety regulations for each machine?
6. Explain safety rule?
7. List the essential** parts of each machine?
8. Explain the operation of each machine?
9. Operate the machine?

MACHINE TOOLS:

band saw
scroll saw
router
saber saw
power miter box
uniplane
belt/disc sander
electric
drill press
buffer
orbital sander
router (shaper) table
lathe
port. belt sander

** Essential for operation

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT:

MAIN HEADING: HAND TOOLS

OBJECTIVE: The student will demonstrate the ability to use hand tools (see list)* by using the tools.

CAN THE LEARNER:

1. List hand tools?
2. Explain what operations each tool can perform?
3. List common operations? (see list)*
4. Explain each operation? (see list)*
5. List safety regulations for each tool?
6. Explain safety rule?
7. List the essential** parts of each tool?
8. Explain the operation of each tool?
9. Operate the tool?

HAND TOOLS:

Planes; block, smooth, jack
Saws; rip, crosscut, back, coping, compass
Squares; combination, try, framing
Ratchet Brace and Bits;
Hand Drills
Files
Surforms
Screwdrivers
Hammers
Clamps; "c", bar, handscrew, belt

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** Essential for operation

LAKE ST[illegible]NS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: WOODSHOP 1-2
GRADE LEVEL:

UNIT:

MAIN HEADING: JOINTS

OBJECTIVE: The student will be able to demonstrate the ability to use the following wood joints (see list)* by applying these joints to projects.

CAN THE LEARNER:

1. List wood joints?
2. Describe wood joints?
3. Identify wood joints?
4. Explain application of joints to project?
5. Use wood joints on projects?

* WOOD JOINTS LIST

Dado
Butt
Rabbet
Groove

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Understanding Self

MAIN HEADING:

OBJECTIVE: The learner will understand how some personality traits fit better into some occupations than others by identifying which personality traits are needed for success in certain careers (list). For example: Doctor, Airplane Pilot, etc...

CAN THE LEARNER:

1. Define "personality" and "success"?
2. Discuss what makes up a personality?
3. Describe how they see their own personalities?
4. Explain how personalities fit into different careers?
5. Match best personality traits to specific career areas?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Understanding Self

MAIN HEADING:

OBJECTIVE: Learner will demonstrate an understanding of self-concept by recognizing his/her strengths and weaknesses.

CAN THE LEARNER:

1. Define self-concept/self-esteem?
2. List his/her strengths and weaknesses?
3. Recognize how strengths and weaknesses affect self-concept?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Understanding Self

MAIN HEADING:

OBJECTIVE: The learner will demonstrate an understanding of how values affect career choice by discussing how personal values influence career choice.

CAN THE LEARNER:

1. Define values?
2. Recognize sources of values?
3. Recognize values may be subject to change?
4. List his/her personal values?
5. Relate personal values and influence of others' values or career choice?

LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Understanding Self

MAIN HEADING:

OBJECTIVE: Learner will demonstrate an understanding of interpersonal communication on and off the job by identifying how verbal and non-verbal messages affect communication.

CAN THE LEARNER:

1. Define communication, interpersonal communication, verbal, non-verbal communications?
2. Identify good listening skills?
3. Identify good "teller" skills?
4. Recognize verbal and non-verbal messages?
5. Identify how verbal and non-verbal messages affect communication?

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LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Interests

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of his/her interests by identifying what he/she likes to do.

CAN THE LEARNER:

1. Define the term "interest"?
2. Name their interest preferences in broad general categories, i.e. those in the Kuder E?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: INTERESTS

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of the importance of his/her interests by discussing how his/her interests affect his/her life and career choices.

CAN THE LEARNER:

1. Disucss how his/her interests affect his/her life and career choices?
2. Explain how persons can develop new interests?
3. Recognize that interests can change?
4. Identify compatible career areas given a list of a person's interests and hobbies?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Abilities

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding that there is a difference between an ability and an interest by recognizing that an interest and an ability are not the same.

CAN THE LEARNER:

1. Define "ability"?
2. Explain the difference between "ability" and "interest"?

LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Abilities

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of his/her personal abilities by identifying his/her individual abilities.

CAN THE LEARNER:

1. List "signs" (family, work, school records" of his/her abilities?
2. Name some of his/her natural abilities?
3. Describe some of his/her natural abilities?

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LAKE S[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Decision Making

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of the decision-making process by applying the process to open-ended story examples.

CAN THE LEARNER:

1. Identify the six steps in decision-making process?
2. Apply the process to open-ended story examples?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Decision Making

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of the decision-making process by identifying tentative career areas.

CAN THE LEARNER:

1. Restate the six steps of decision making?
2. Identify five possible tentative career choices using the decision-making process?

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Career Exploration

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of career clusters by matching given careers to their proper career clusters.

CAN THE LEARNER:

1. Explain the term "career cluster"?
2. Explain the difference between the terms "career", "job", "occupation", and "vocation"?
3. Recognize which careers belong to which career clusters?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Career Exploration

MAIN HEADING:

OBJECTIVE: The student will be able to demonstrate an understanding of career information sources by recognizing various career sources.

CAN THE LEARNER:

1. List various sources of career information?
2. Identify various sources of career information - family, friends, teachers, counselors, workers, books, and pamphlets?

LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Career Exploration

MAIN HEADING:

OBJECTIVE: The student will understand the importance each career has to society by being able to explain its role in society.

CAN THE LEARNER:

1. List the relative importance of various careers to society?
2. Discuss the importance of various careers to society?

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LAKE ST[illegible]ENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Planning for a Career

MAIN HEADING:

OBJECTIVE: The student will demonstrate an understanding of the occupations which offer the best job opportunities by recognizing the careers which offer the best entry potential in the next ten years.

CAN THE LEARNER:

1. Recognize current "high demand" occupations?
2. Discuss how changing technology affects demand for jobs?

LAKE ST[illegible]VENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Planning for a Career

MAIN HEADING:

OBJECTIVE: The student will be able to demonstrate an understanding of the various educational options available to them by describing these educational options.

CAN THE LEARNER:

1. Identify some educational routes to enter a career?

   On-the-job training
   High School vocational courses
   Apprenticeship programs
   Community College programs
   Four Year College programs
   Military Service
   Vocational Technical Schools

2. Tell where these types of career training routes can be obtained?

3. Recognize how much and what kind of training is needed for various major careers?

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LAKE STEVENS SCHOOL DISTRICT NO. 4
Lake Stevens, Washington 98258

SUBJECT: CAREER EXPLORATION
GRADE LEVEL: 8th

UNIT: Goal Setting

MAIN HEADING:

OBJECTIVE: The student will demonstrate an ability to make a long-range goal by completing a four-year high school plan.

CAN THE LEARNER:

1. Define difference between long-range goal and short-range goal?
2. Identify his/her long-range career goals?
3. Recognize or identify the various high school options available?
4. Apply these options to their long-range goal by planning a four year program?

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